R5F117
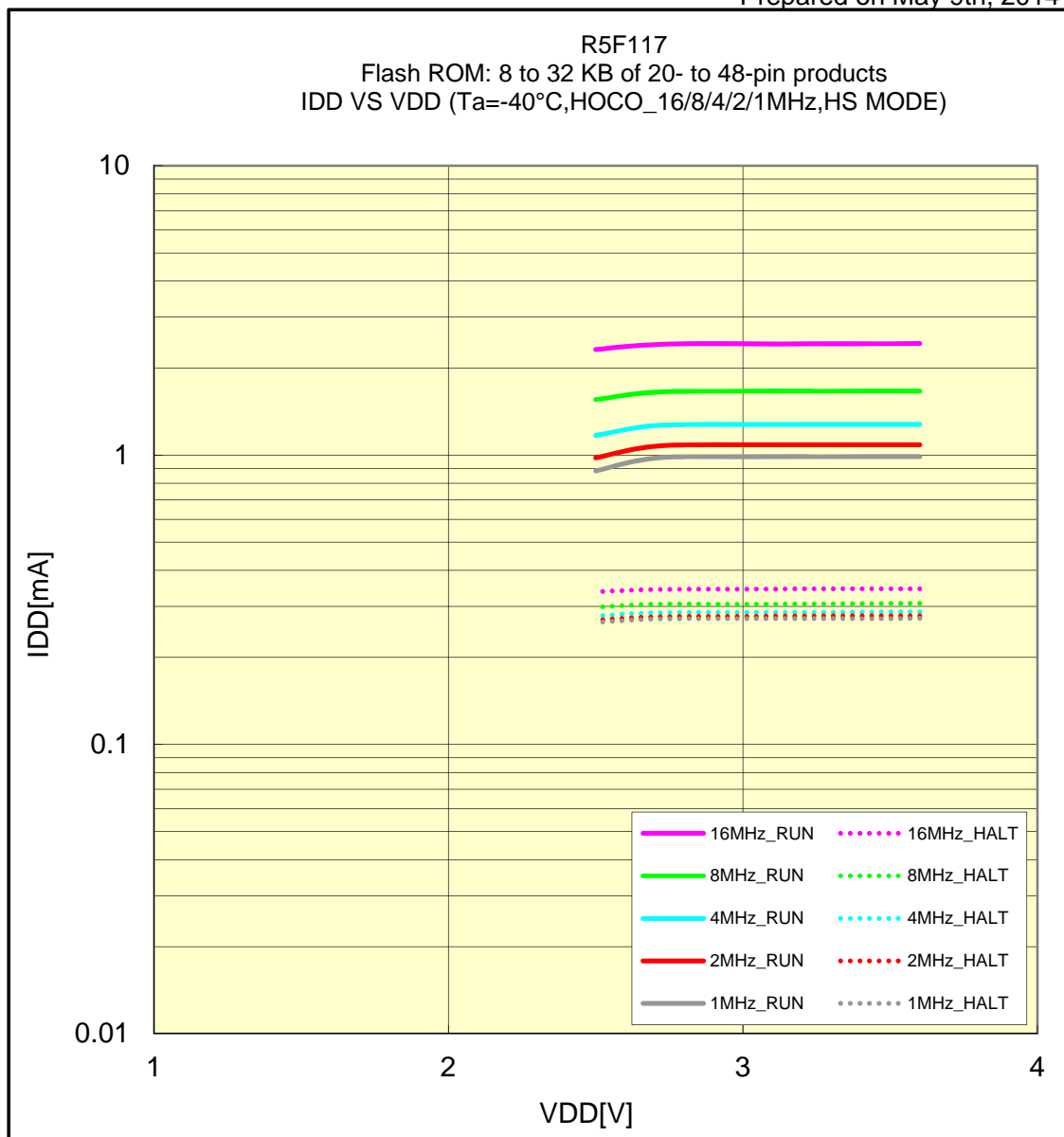**Flash ROM: 8 to 32 KB of 20- to 48-pin products**

IDD VS VDD
(-40°C/HOCO_16/8/4/2/1MHz/HS MODE)
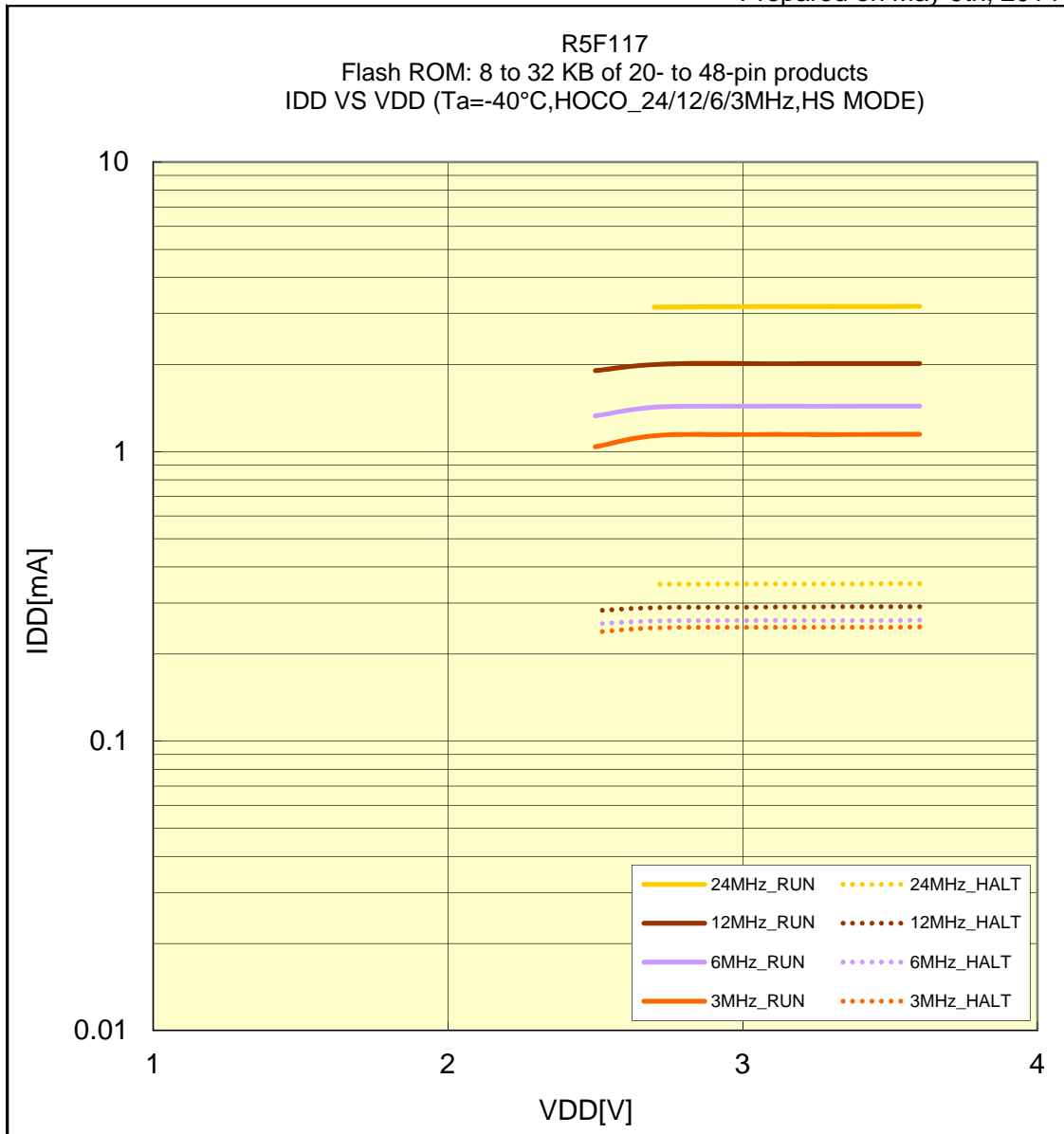
Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,HOCO_16/8/4/2/1MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/HOCO_24/12/6/3MHz/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,HOCO_24/12/6/3MHz,HS MODE)

Legend:
- 24MHz_RUN
- 24MHz_HALT
- 12MHz_RUN
- 12MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
- 3MHz_RUN
- 3MHz_HALT

Axes: IDD[mA] (vertical), VDD[V] (horizontal)
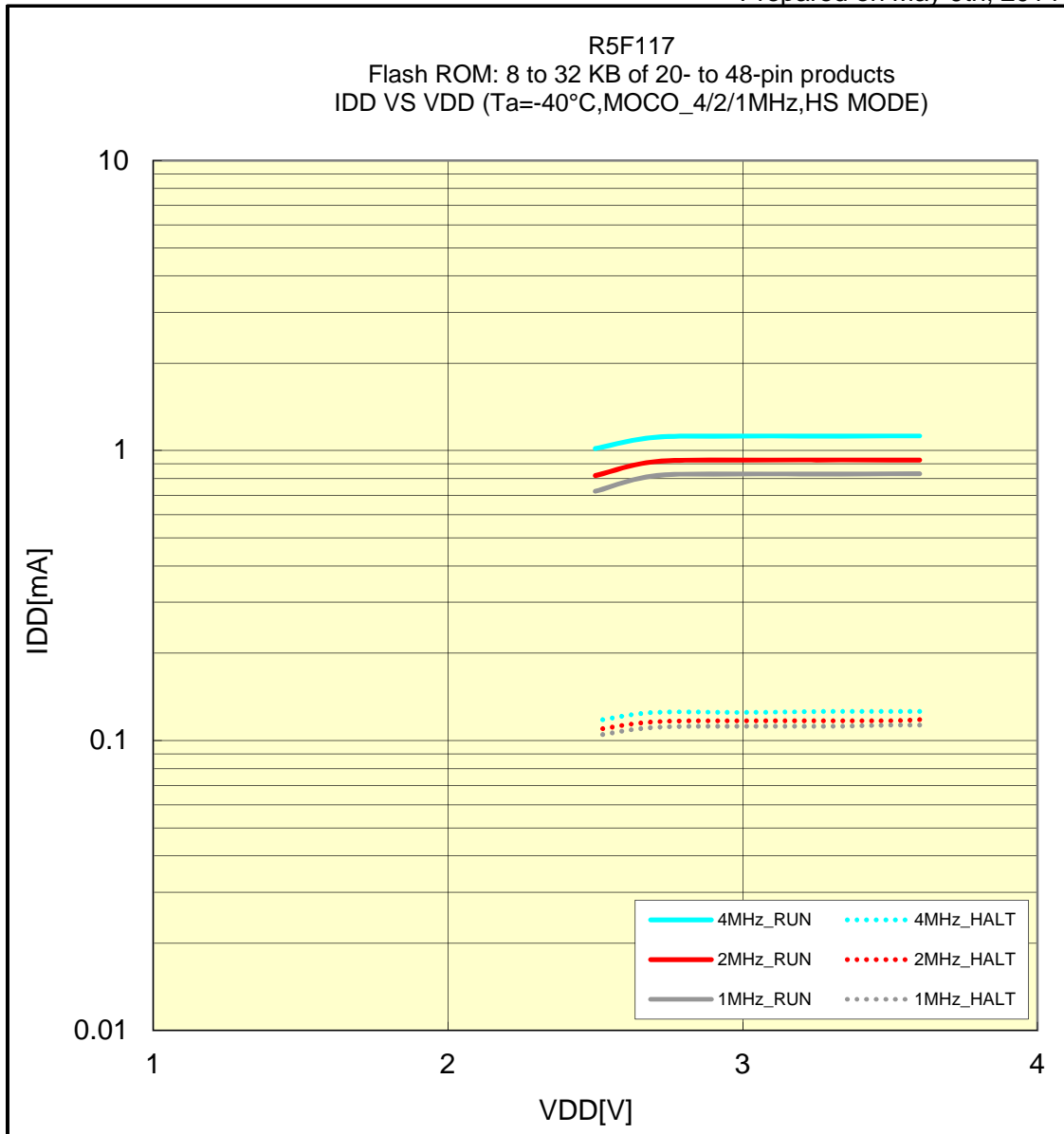
The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/MOCO_4/2/1MHz/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,MOCO_4/2/1MHz,HS MODE)

IDD[mA] vs VDD[V]

- 4MHz_RUN · 4MHz_HALT
- 2MHz_RUN · 2MHz_HALT
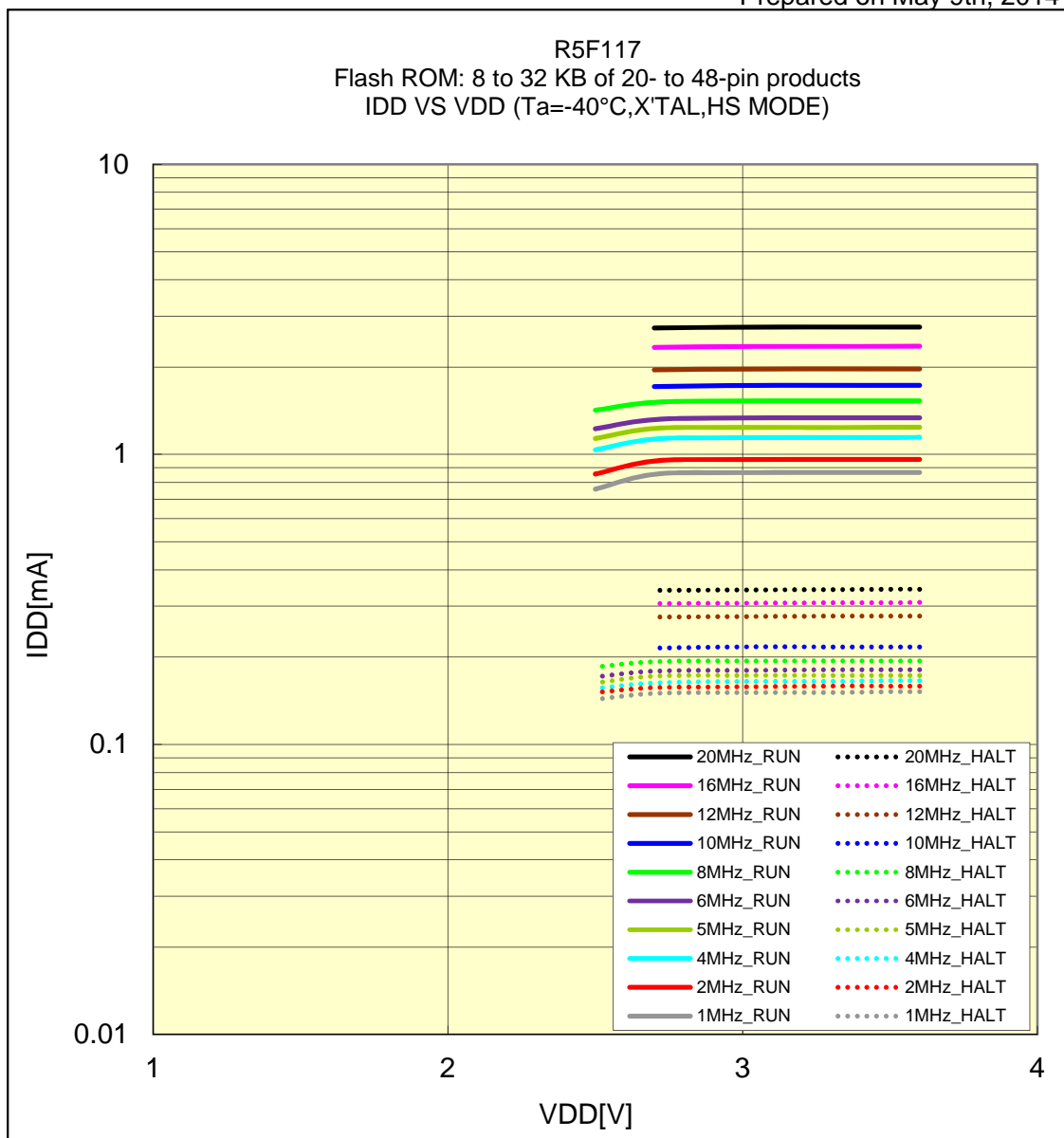- 1MHz_RUN · 1MHz_HALT

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/X'TAL/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,X'TAL,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
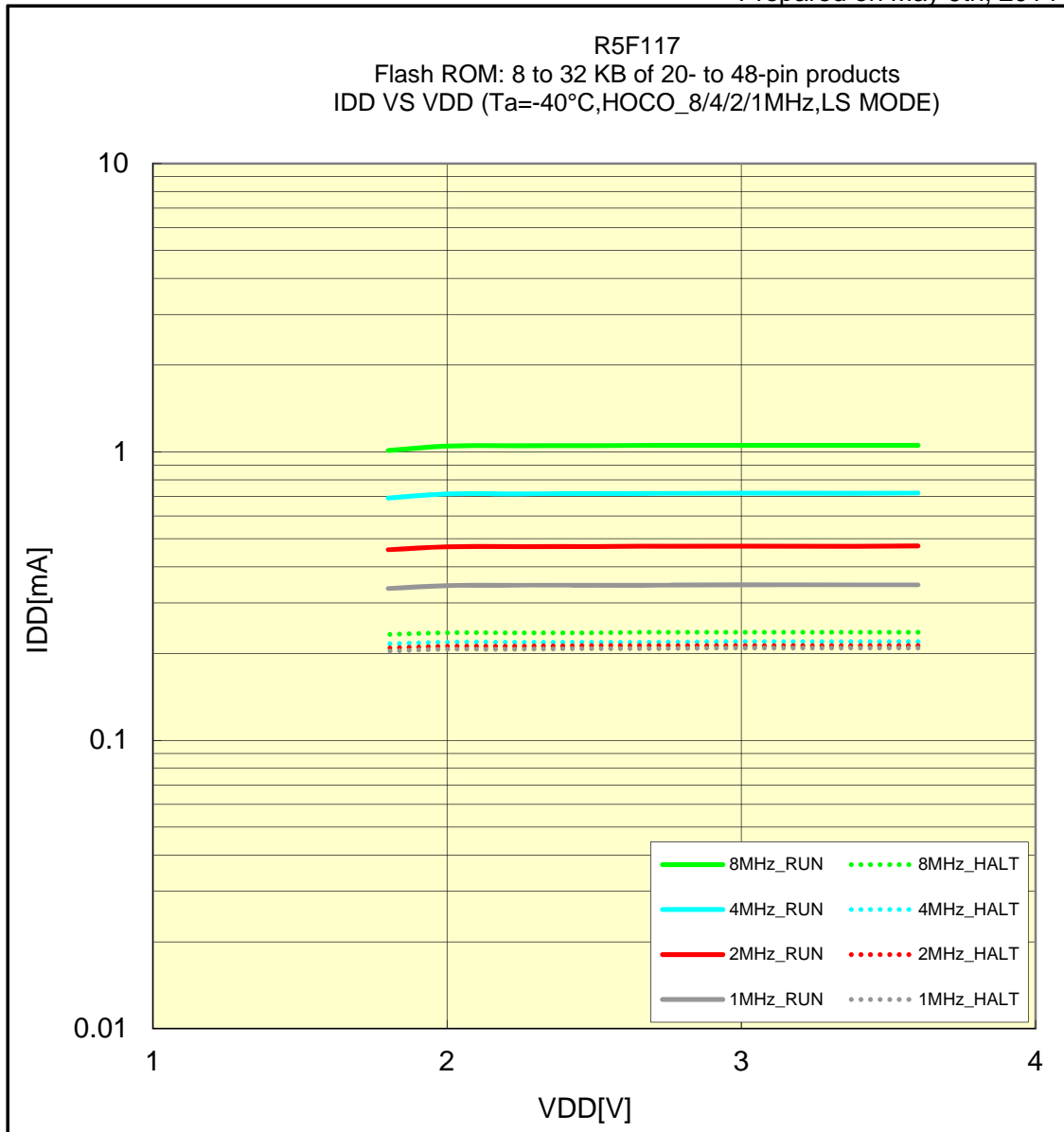**Flash ROM: 8 to 32 KB of 20- to 48-pin products**

IDD VS VDD
(-40°C/HOCO_8/4/2/1MHz/LS MODE (MCSEL=0))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,HOCO_8/4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
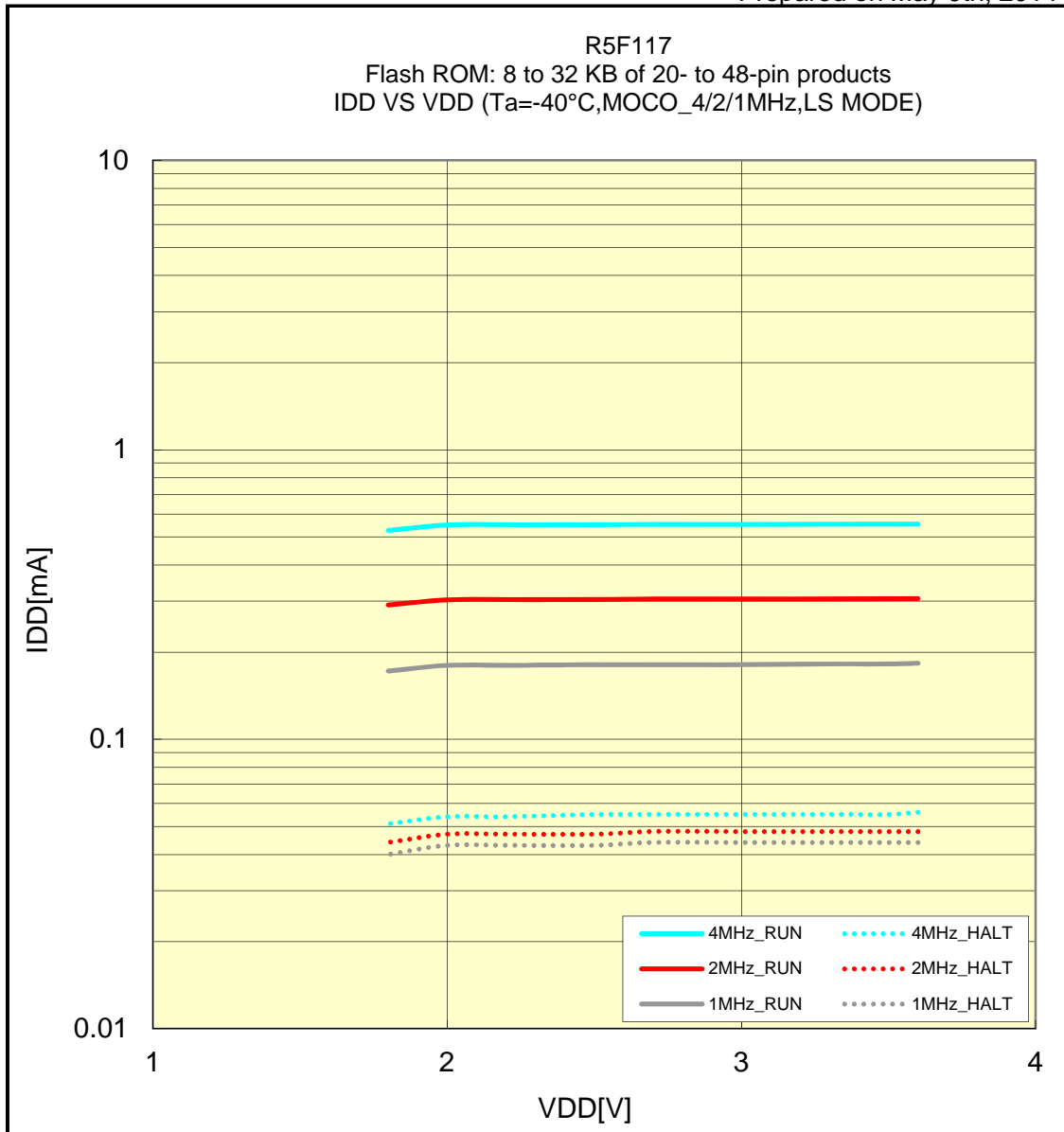
IDD VS VDD
(-40°C/MOCO_4/2/1MHz/LS MODE (MCSEL=0))

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,MOCO_4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.
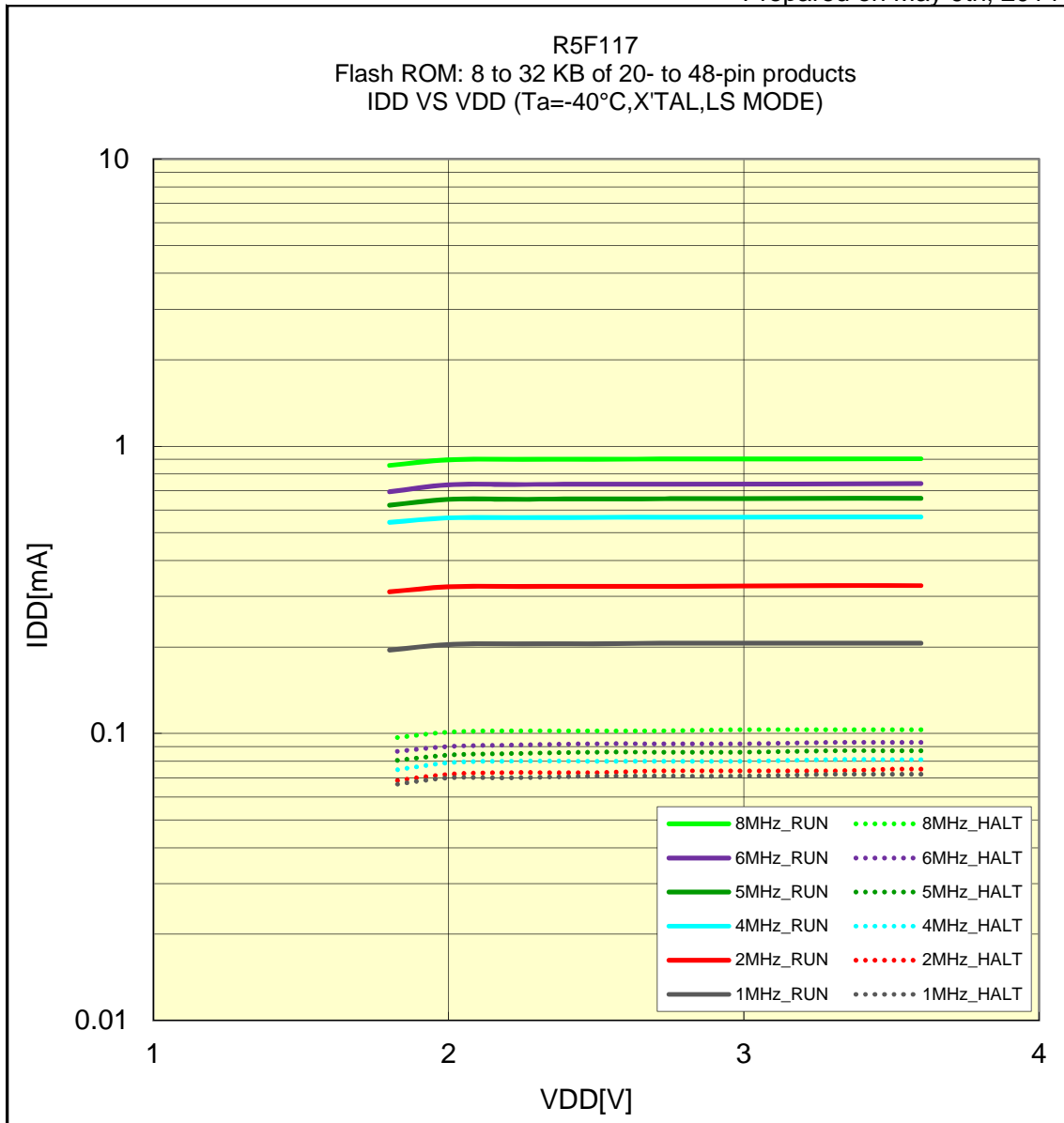
R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
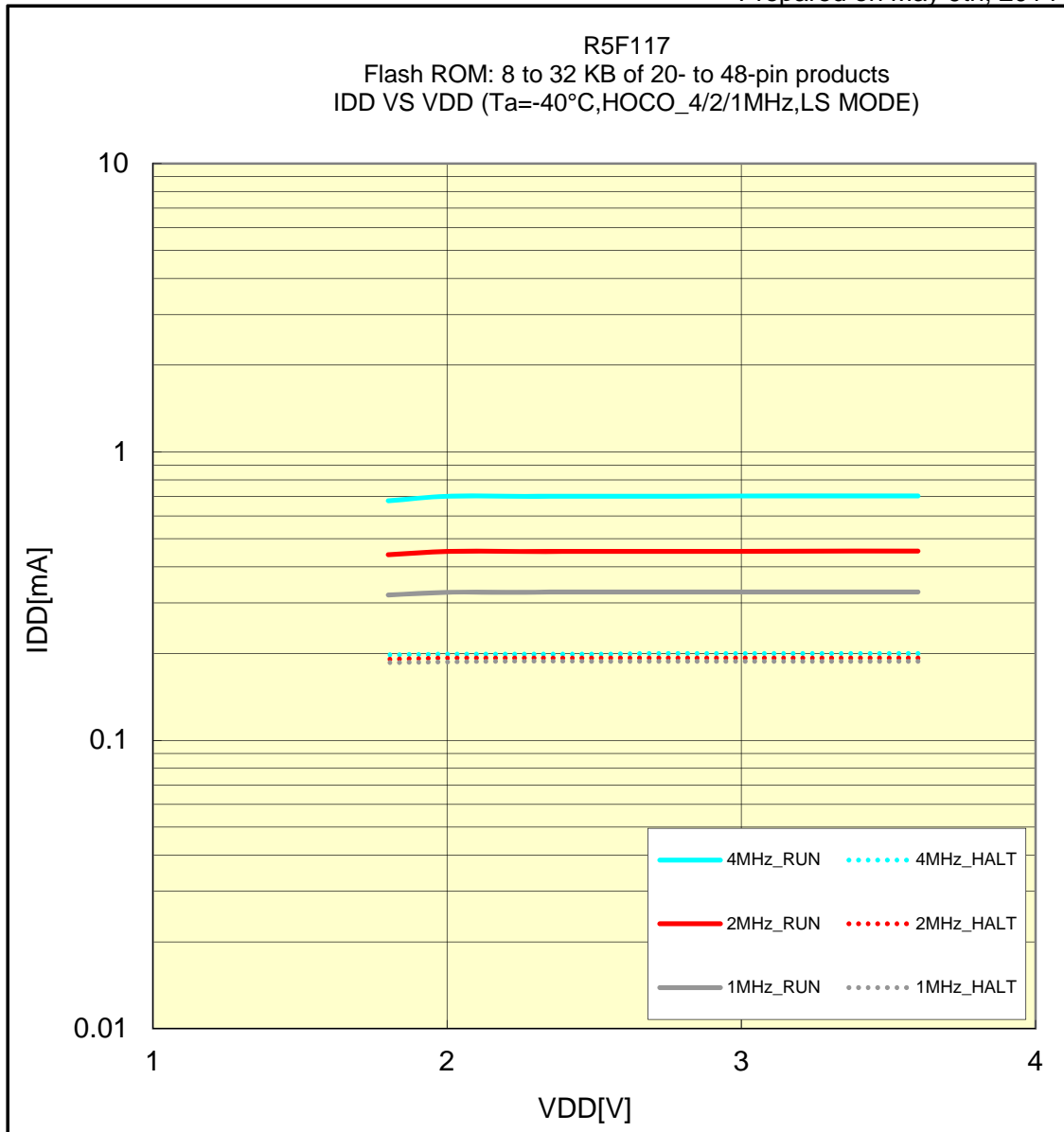
IDD VS VDD
(-40°C/X'TAL/LS MODE (MCSEL=0))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,X'TAL,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/HOCO_4/2/1MHz/LS MODE (MCSELS=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,HOCO_4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

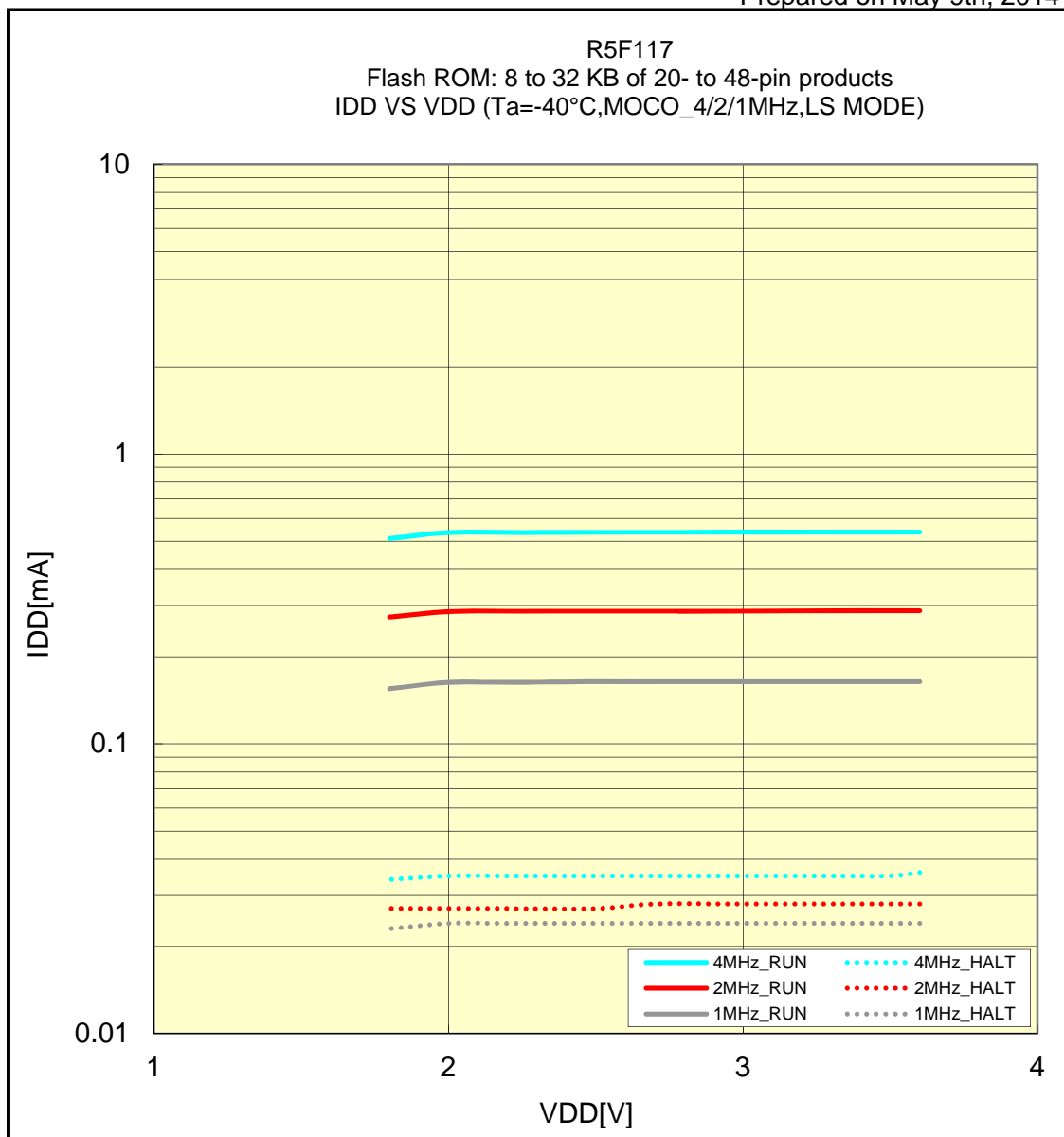# IDD VS VDD
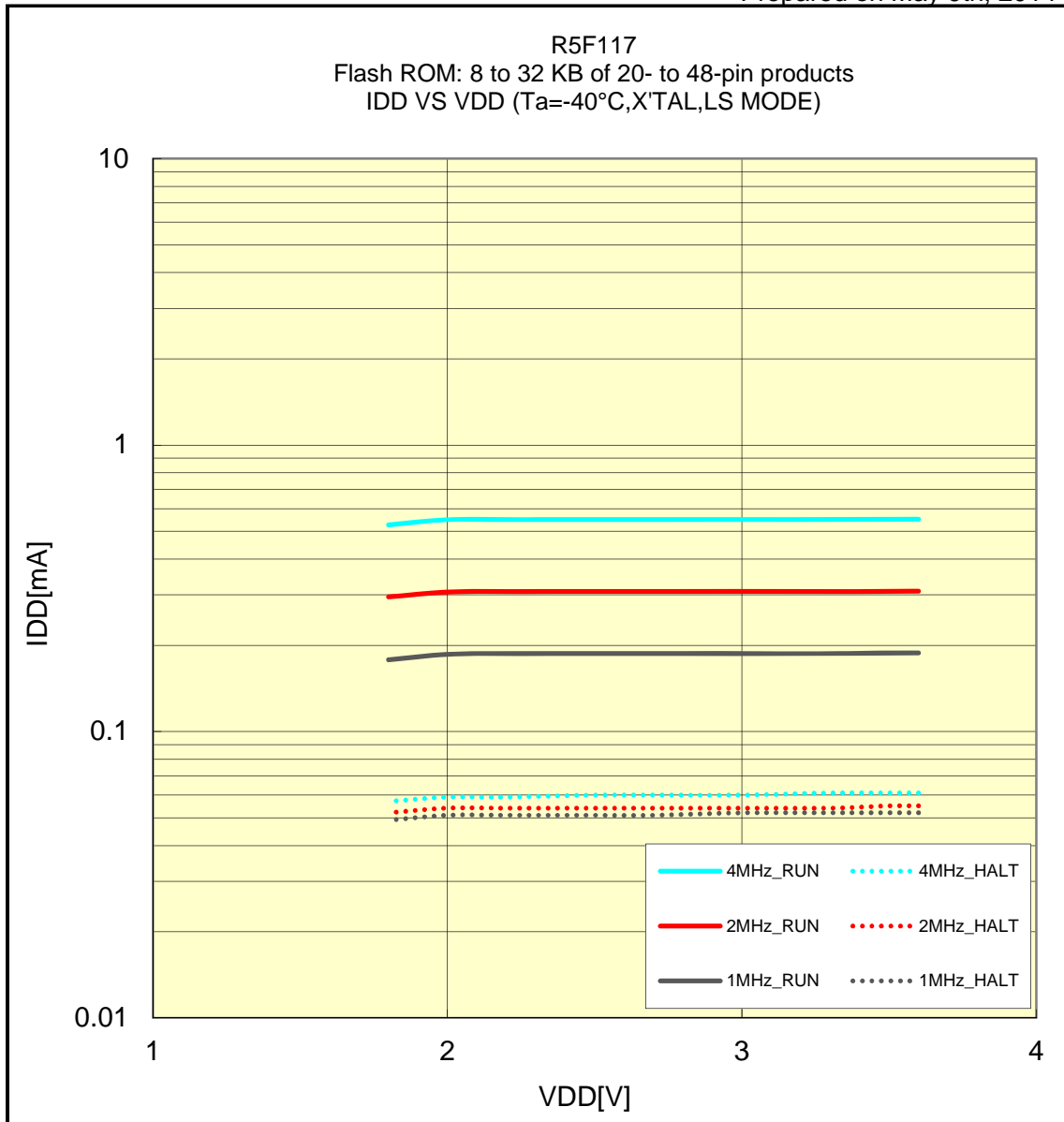# (-40°C/MOCO_4/2/1MHz/LS MODE (MCSEL=1))

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,MOCO_4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
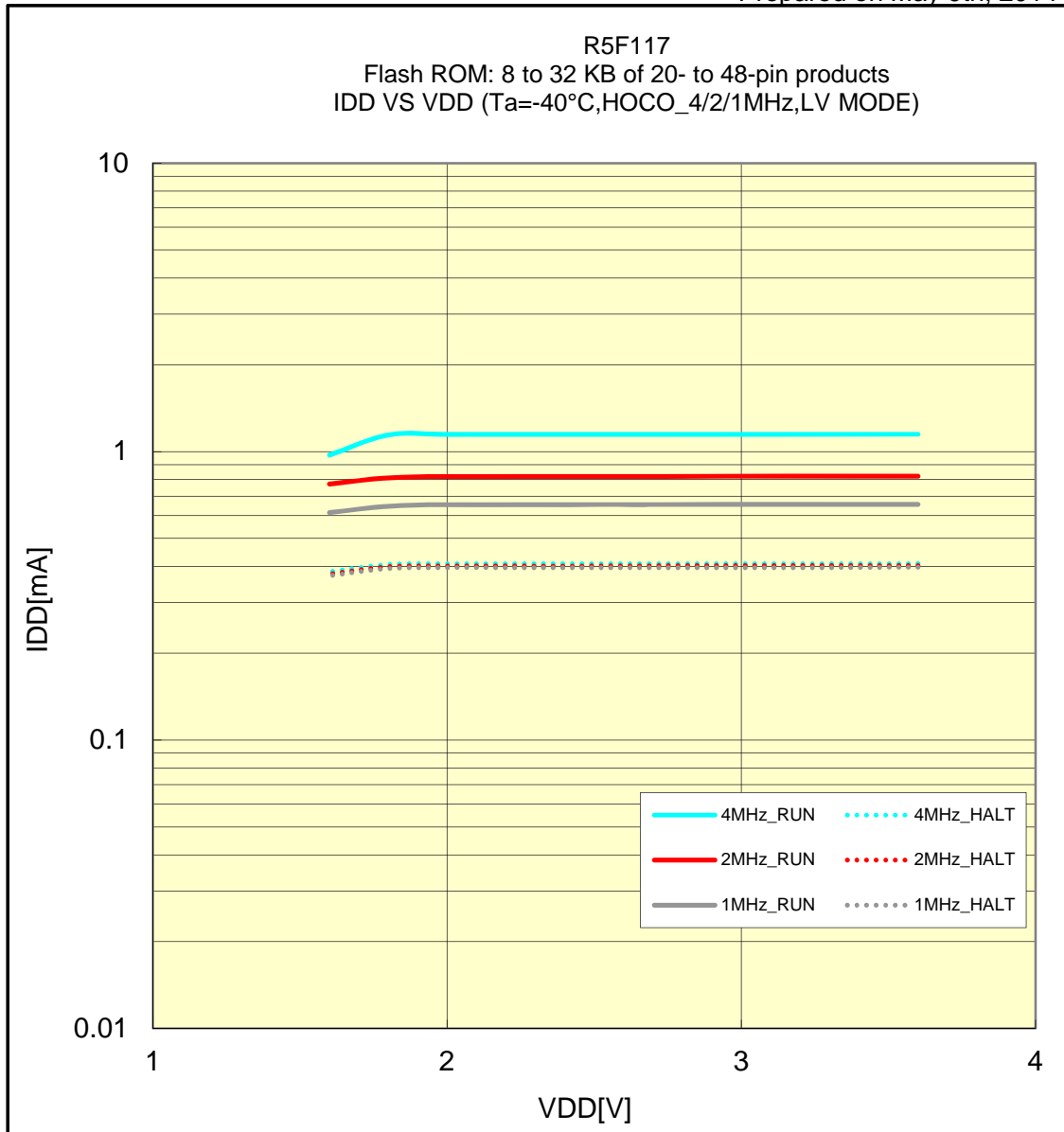
IDD VS VDD
(-40°C/X'TAL/LS MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,X'TAL,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/HOCO_4/2/1MHz/LV MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,HOCO_4/2/1MHz,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
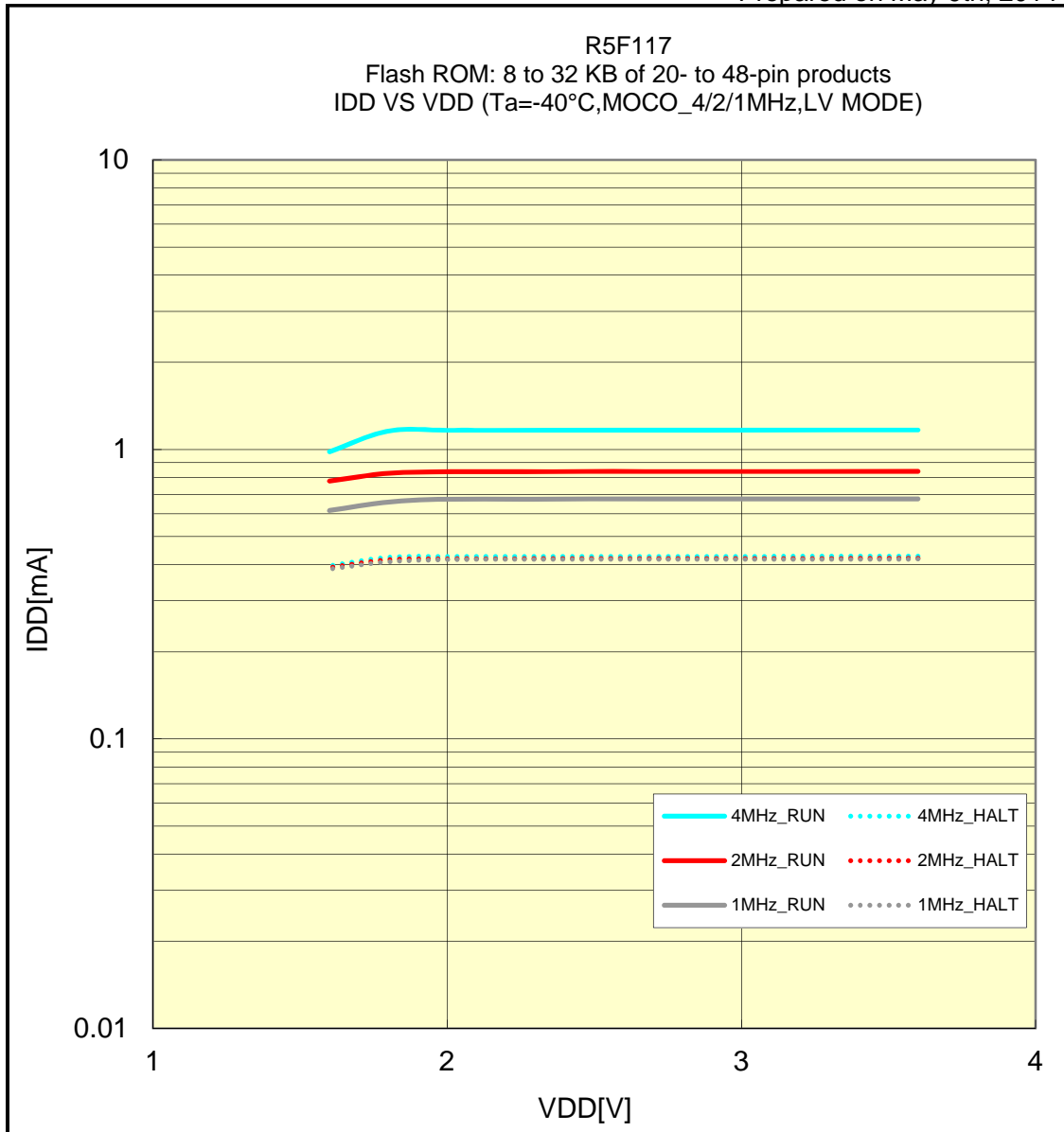
IDD VS VDD
(-40°C/MOCO_4/2/1MHz/LV MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,MOCO_4/2/1MHz,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/X'TAL/LV MODE)

R5F117
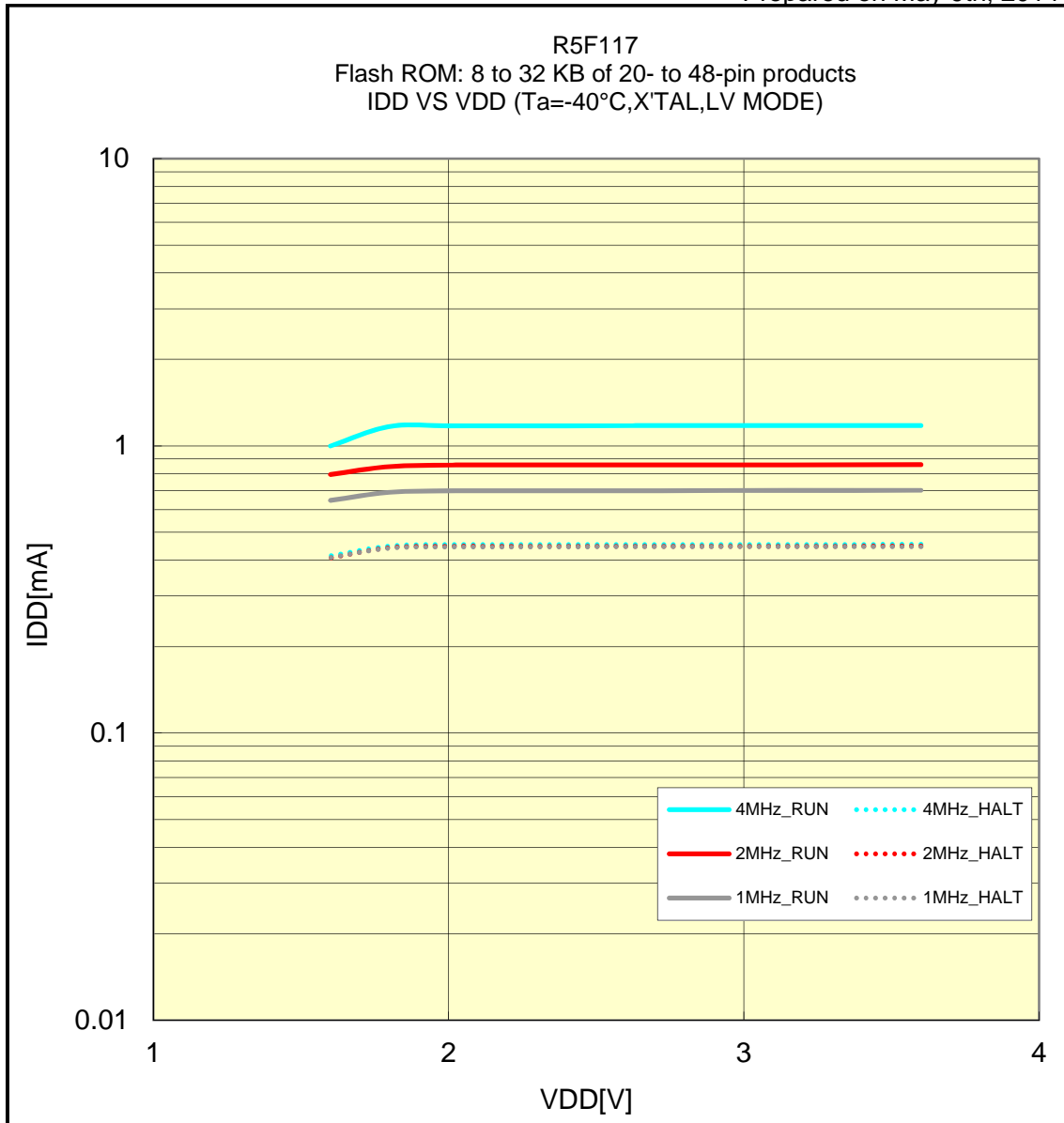Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,X'TAL,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/HOCO_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,HOCO_1MHz,LP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
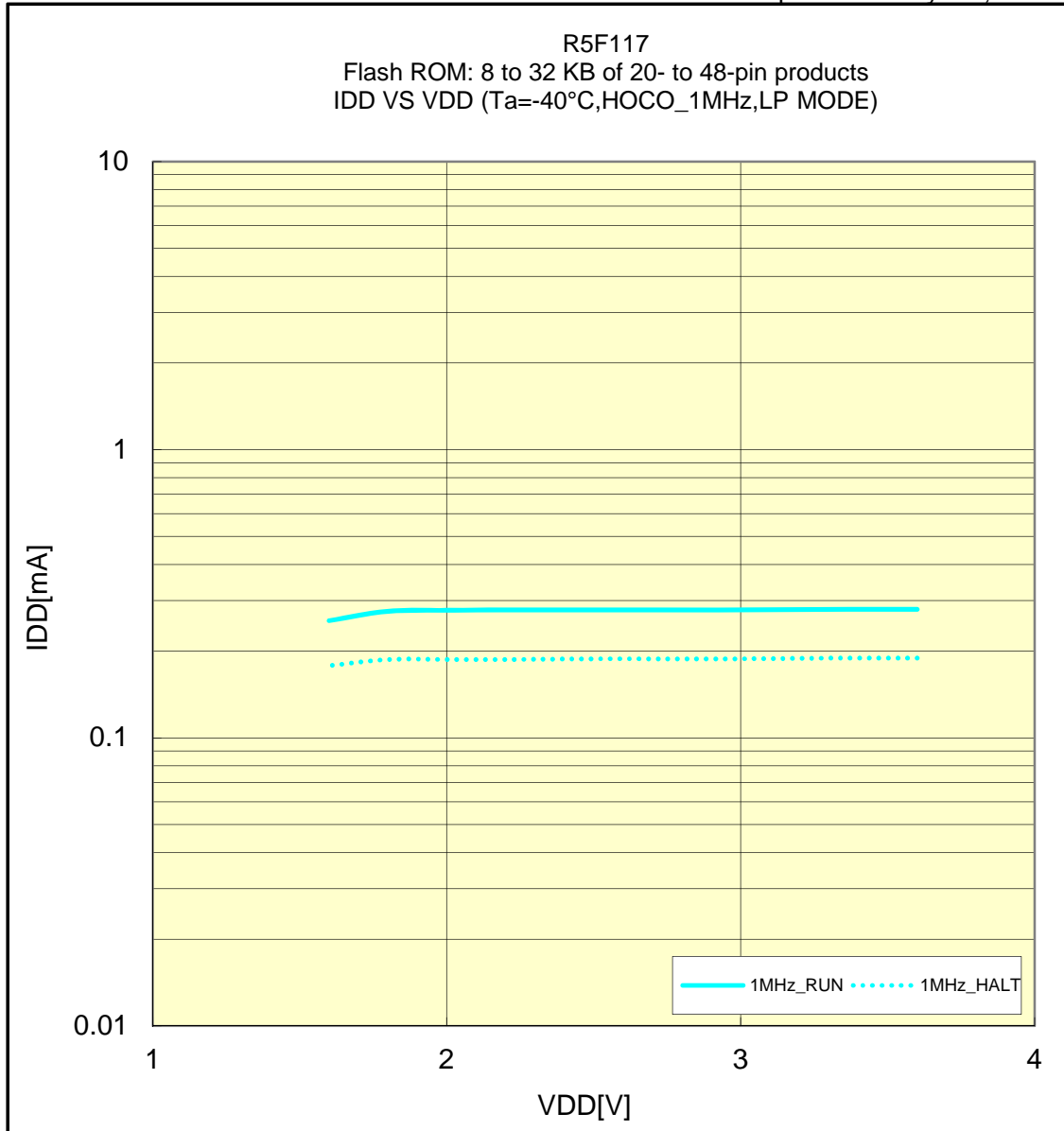**Flash ROM: 8 to 32 KB of 20- to 48-pin products**

IDD VS VDD
(-40°C/MOCO_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,MOCO_1MHz,LP MODE)
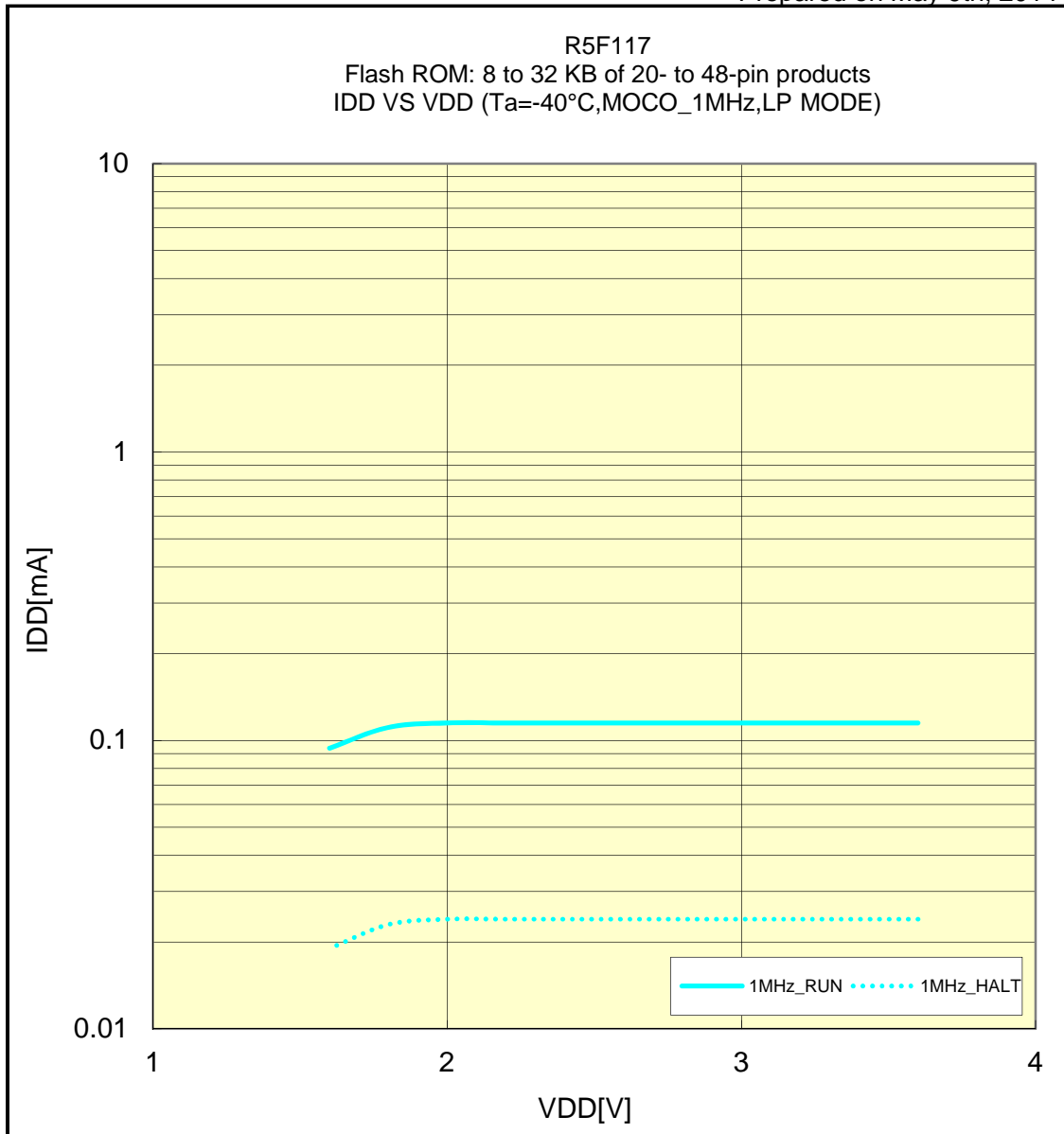

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/X'TAL_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,X'TAL_1MHz,LP MODE)
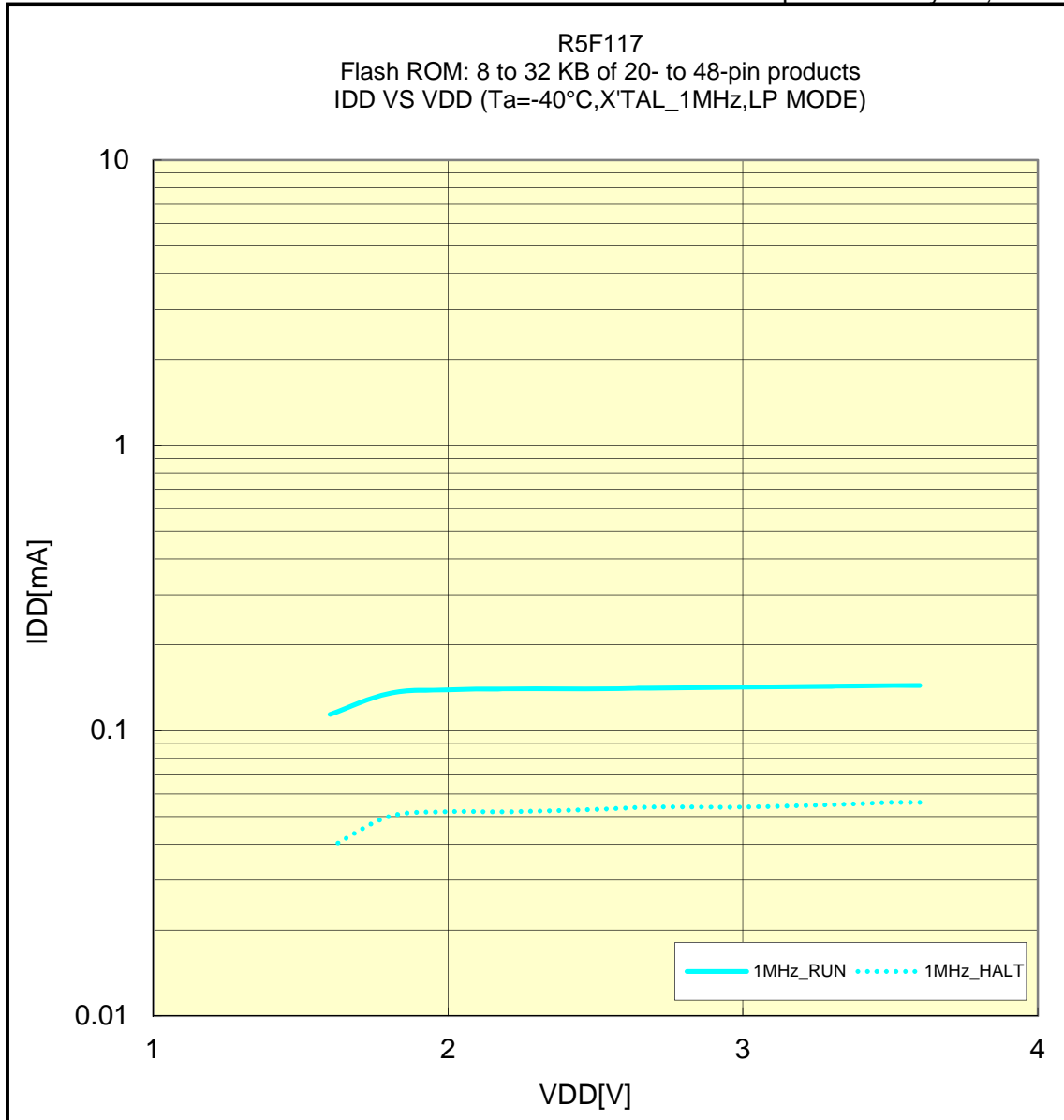
The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(-40°C/sub_clock/32.768KHz)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=-40°C,sub_clock,32.768KHz)

Legend:
- RUN(Low power consumption oscillation)
- HALT(Low power consumption oscillation)
- RUN(Normal oscillation)
- HALT(Normal oscillation)
- RUN(Ultra-low power consumption oscillation)
- HALT(Ultra-low power consumption oscillation)
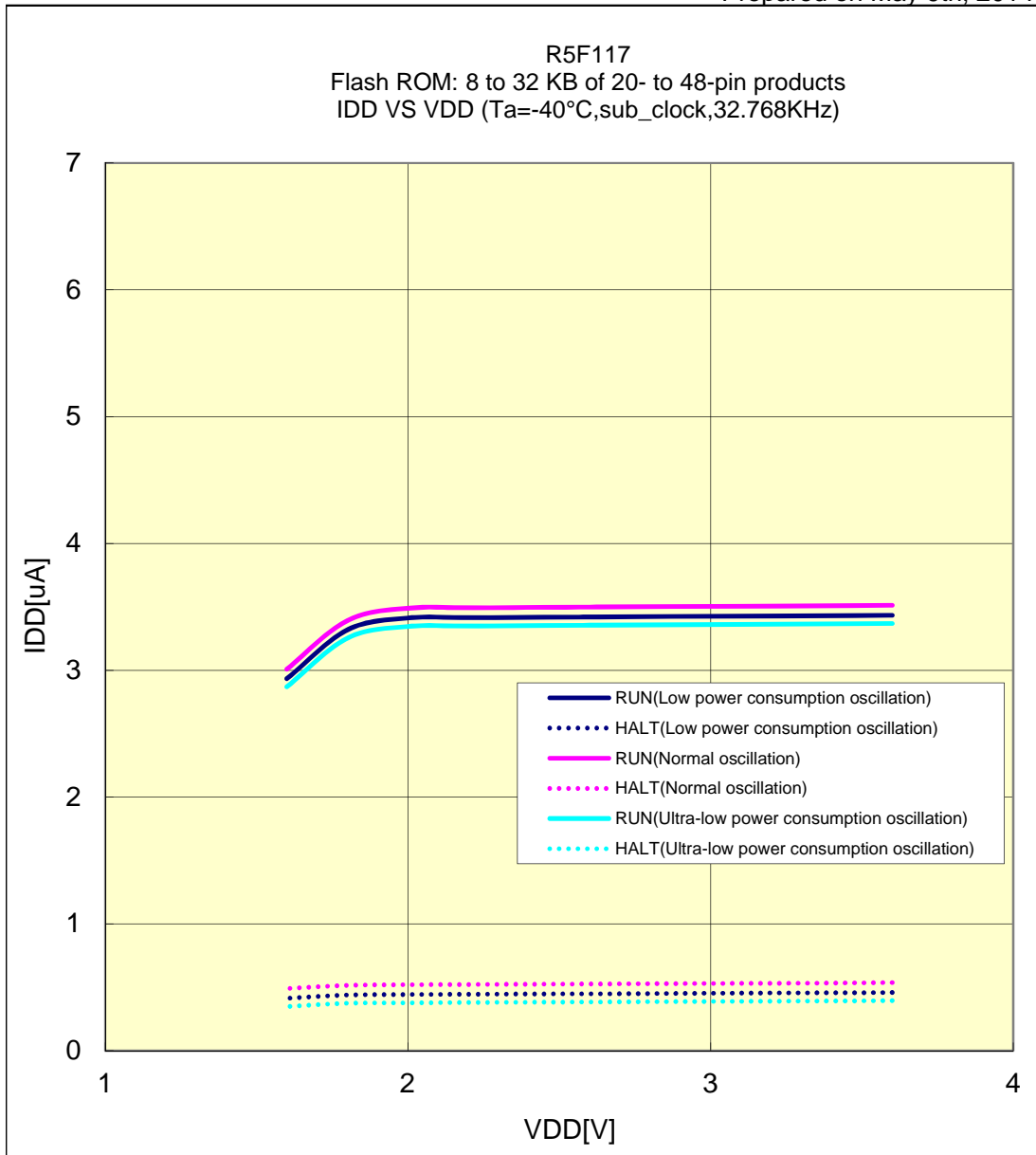
The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/HOCO_16/8/4/2/1MHz/HS MODE)

R5F117
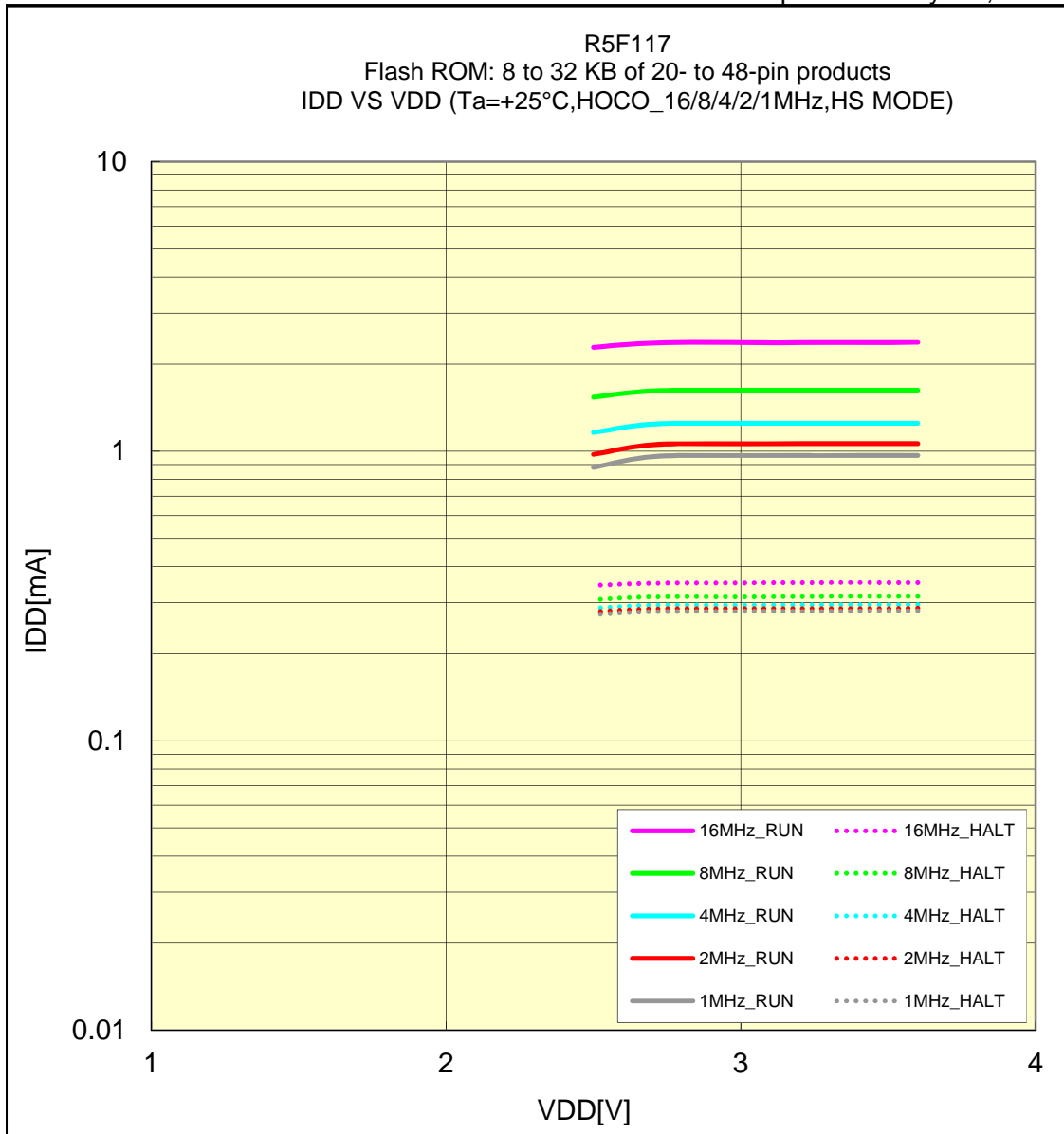Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+25°C,HOCO_16/8/4/2/1MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/HOCO_24/12/6/3MHz/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
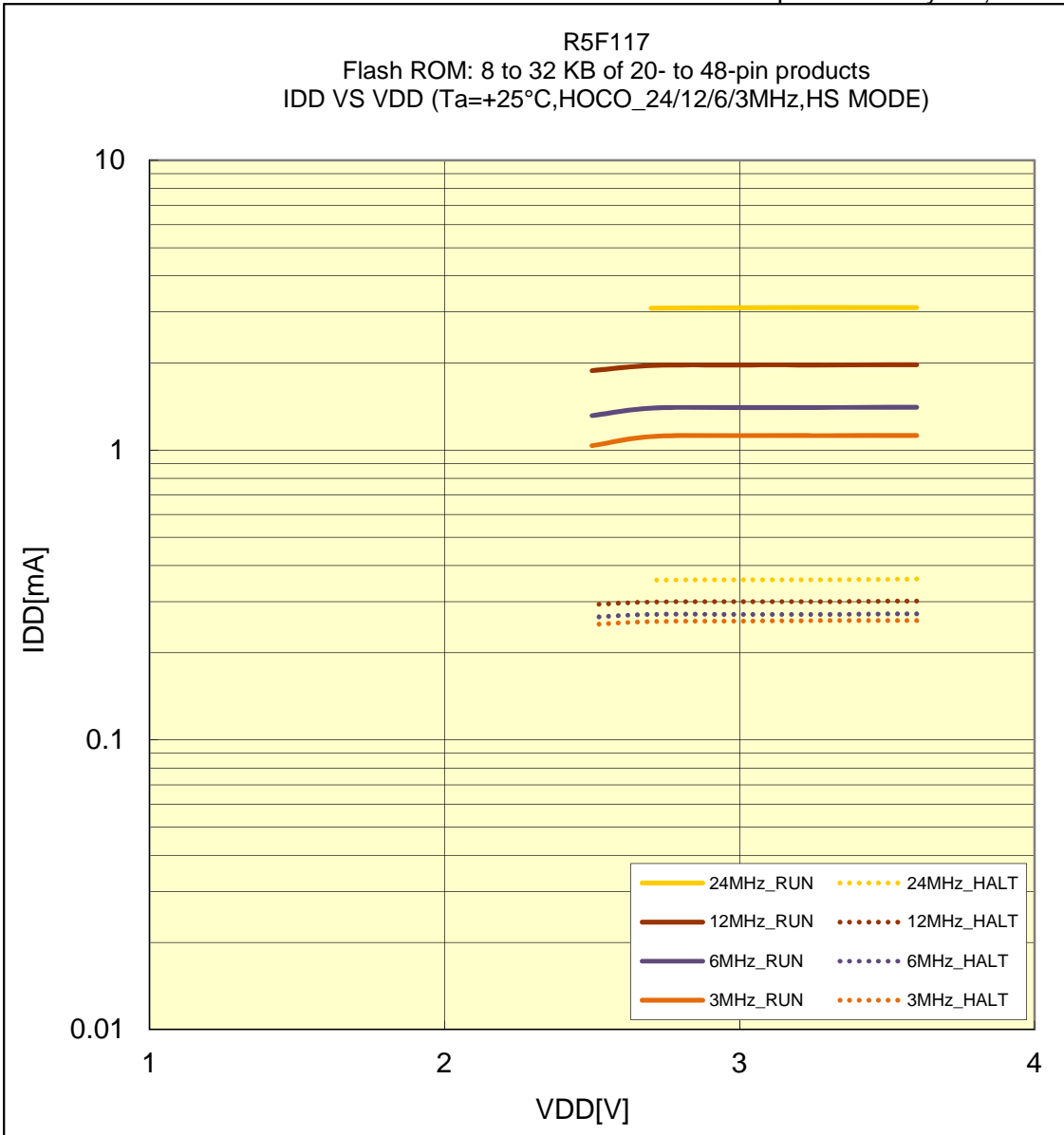IDD VS VDD (Ta=+25°C,HOCO_24/12/6/3MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/MOCO_4/2/1MHz/HS MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
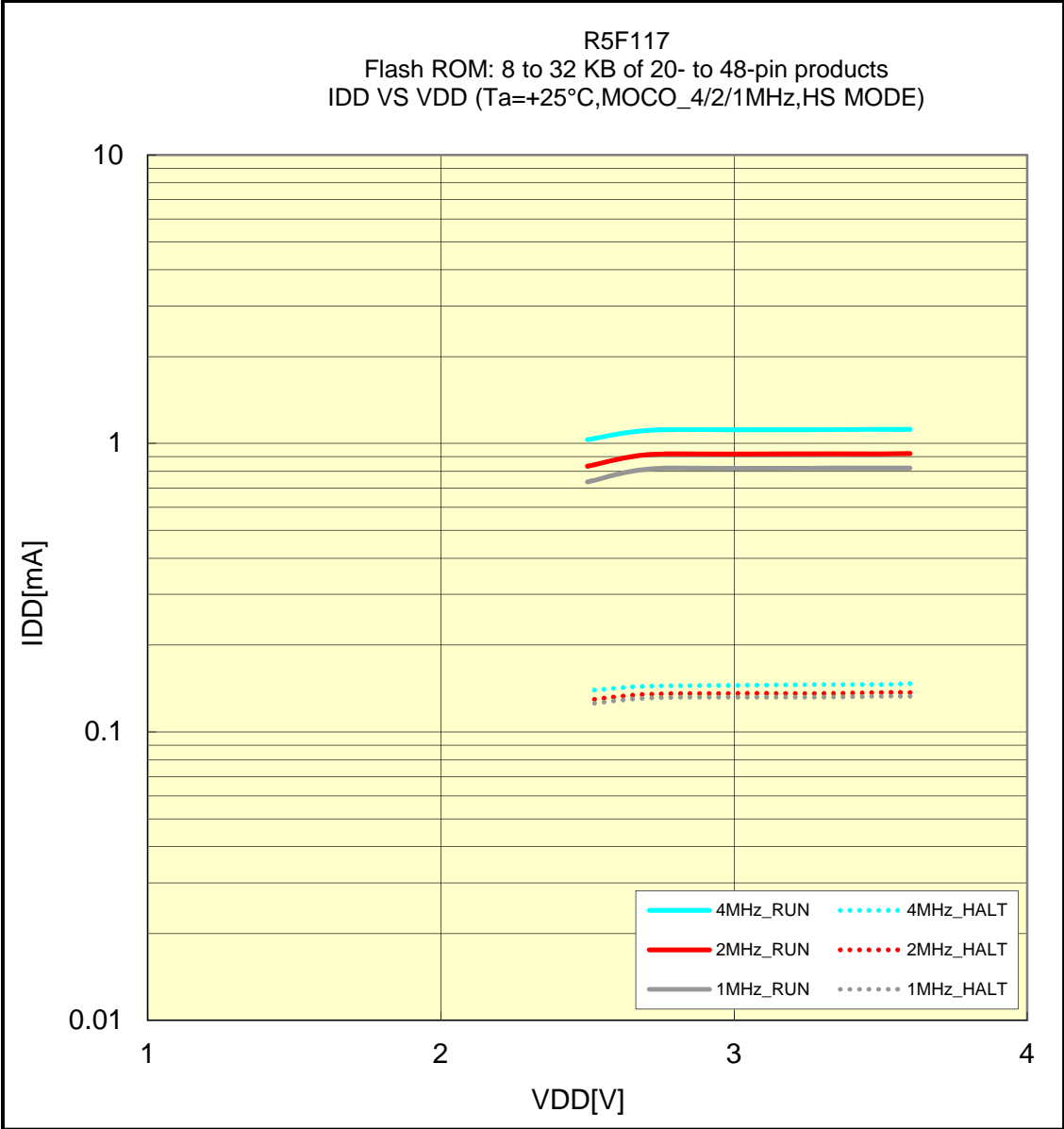IDD VS VDD (Ta=+25°C,MOCO_4/2/1MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/X'TAL/HS MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
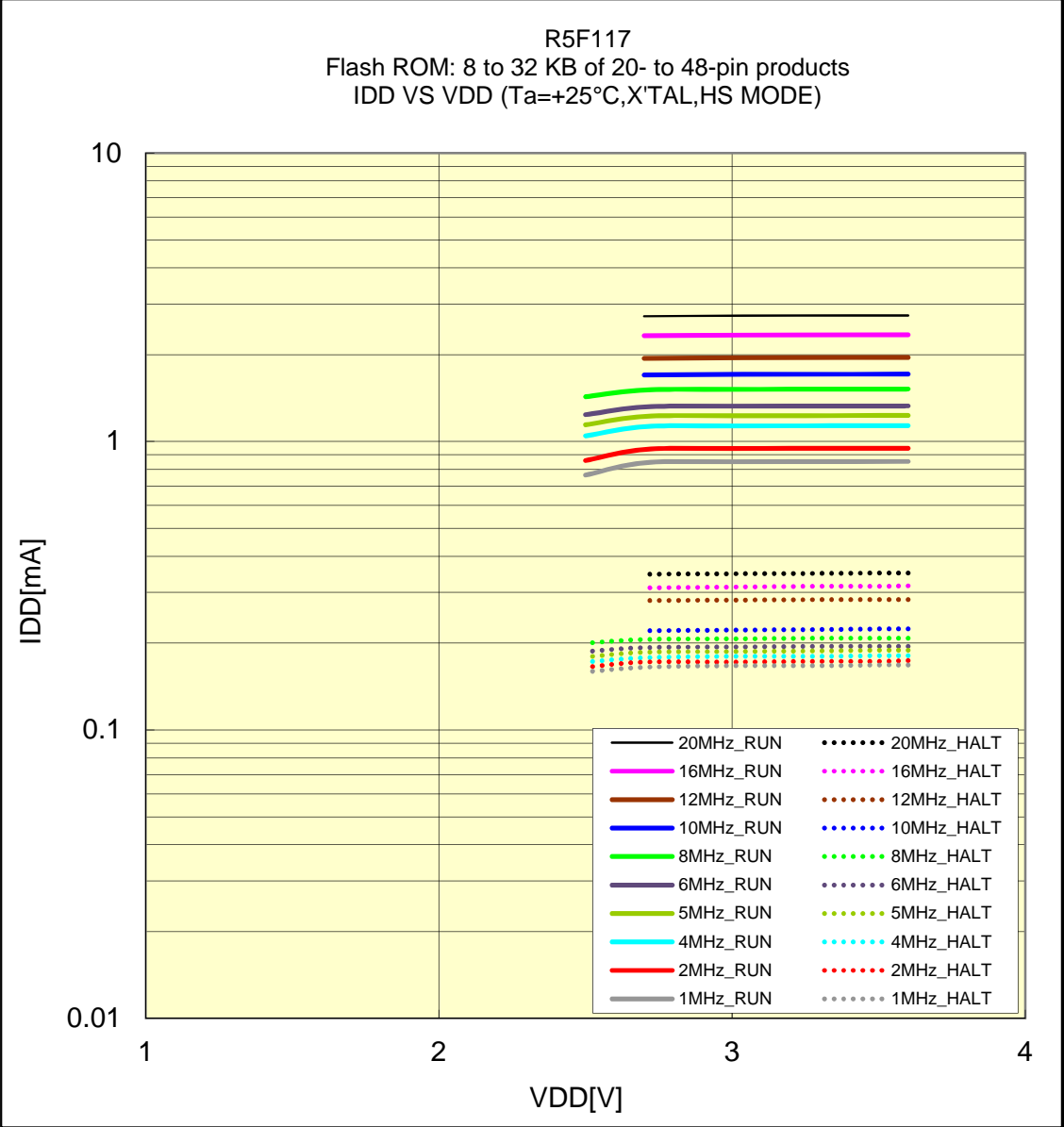IDD VS VDD (Ta=+25°C,X'TAL,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/HOCO_8/4/2/1MHz/LS MODE (MCSEL=0))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
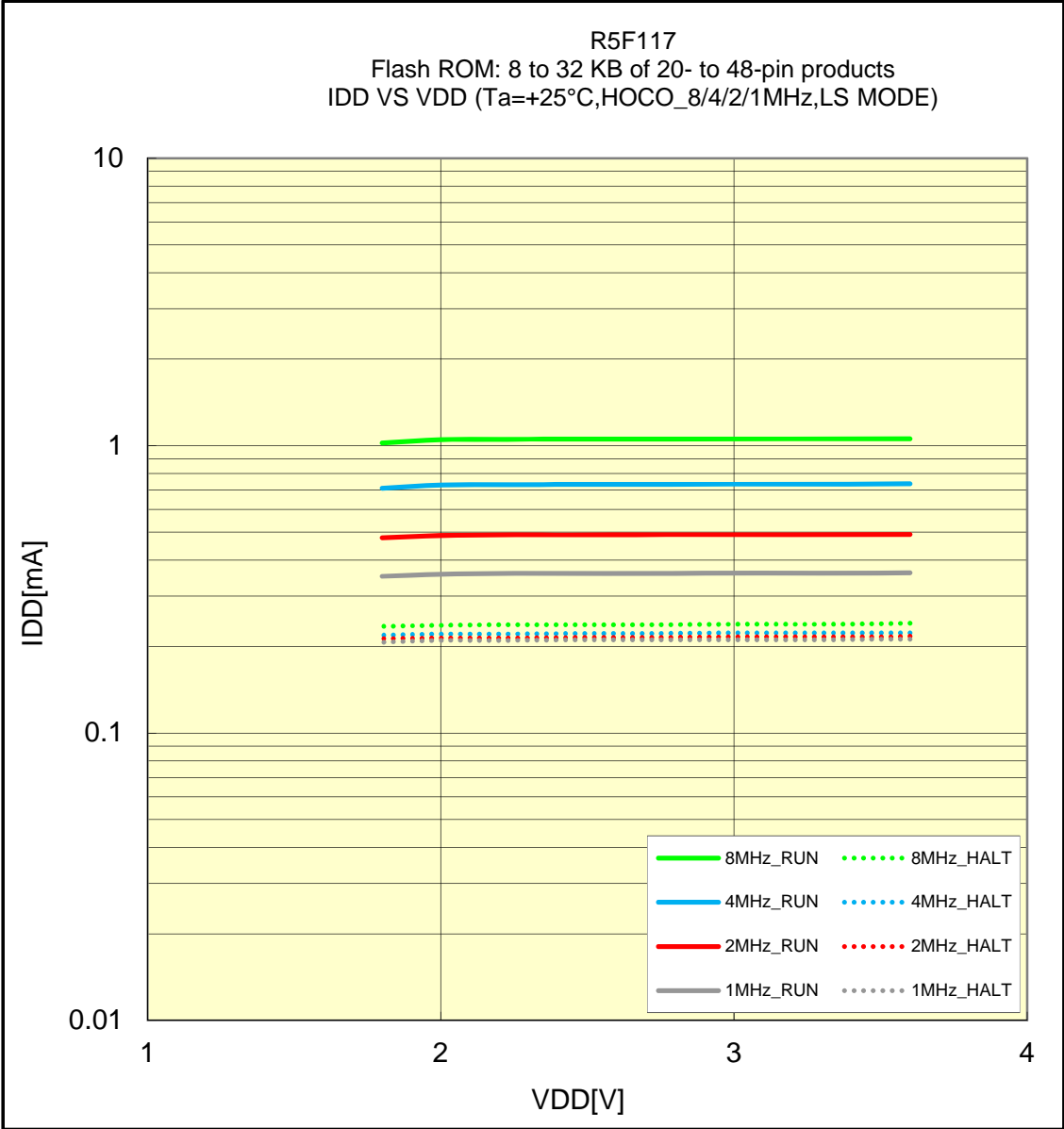IDD VS VDD (Ta=+25°C,HOCO_8/4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/MOCO_4/2/1MHz/LS MODE (MCSEL=0))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
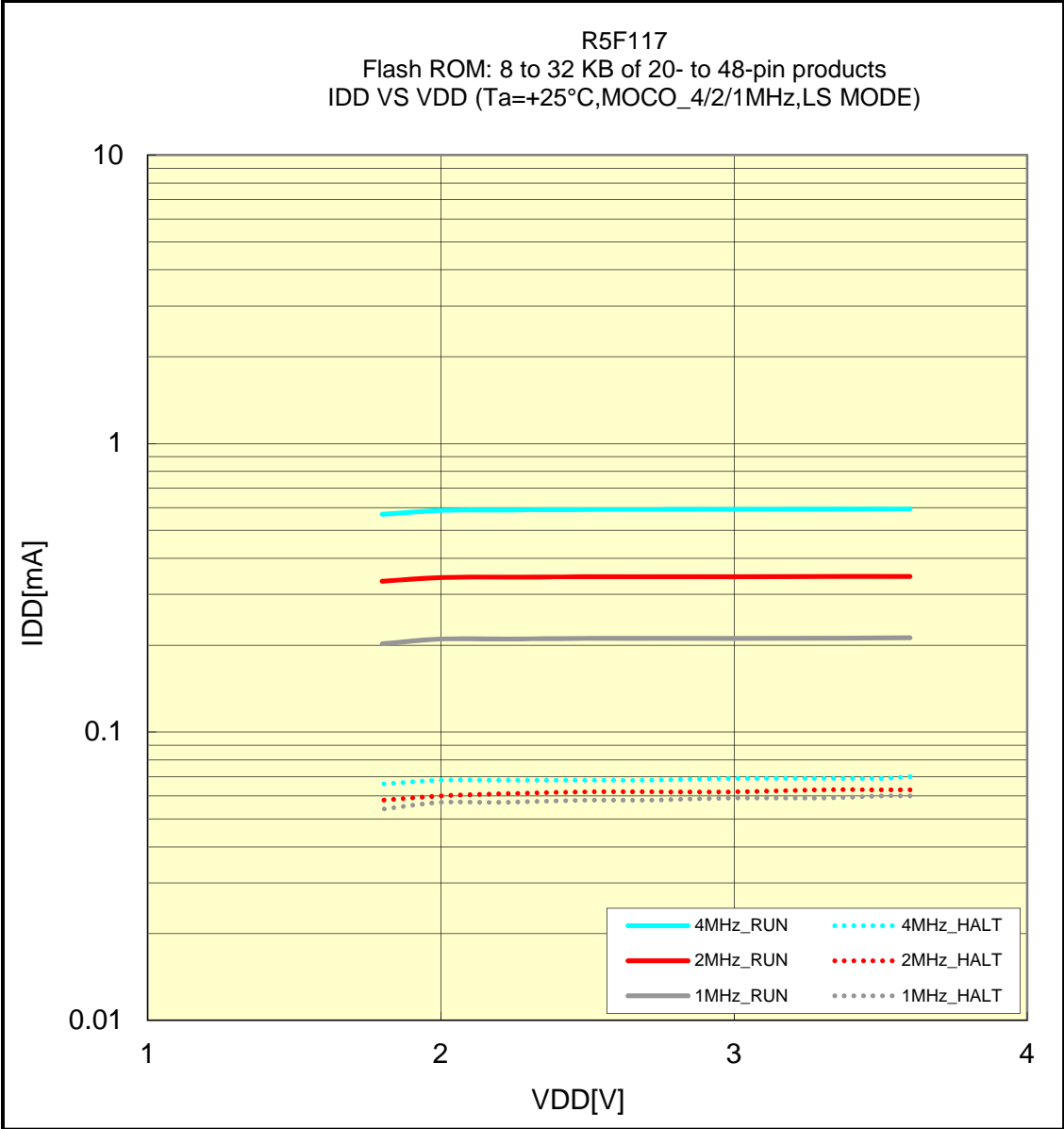IDD VS VDD (Ta=+25°C,MOCO_4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/X'TAL/LS MODE (MCSEL=0))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
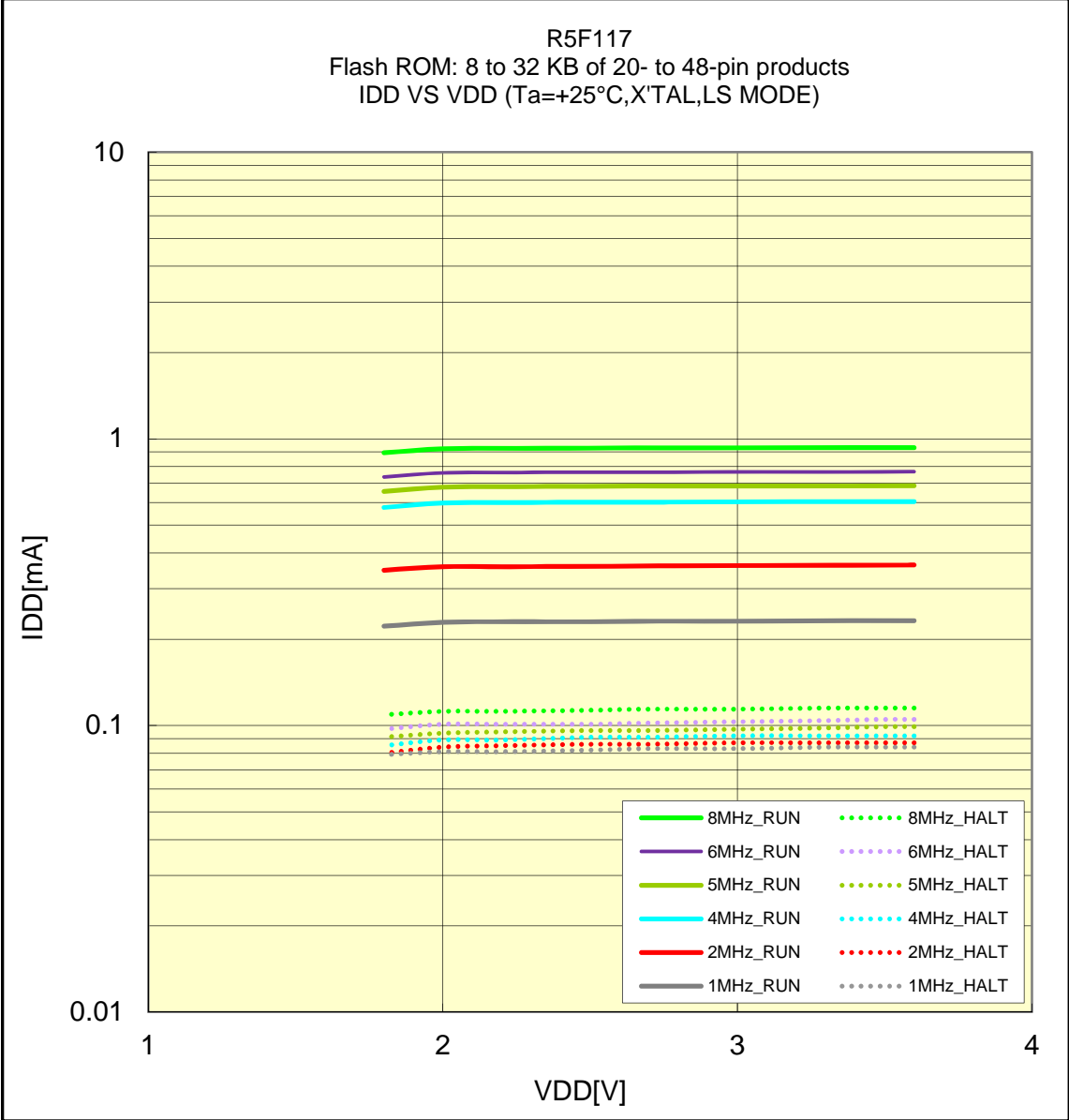IDD VS VDD (Ta=+25°C,X'TAL,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/HOCO_4/3/2/1MHz/LS MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
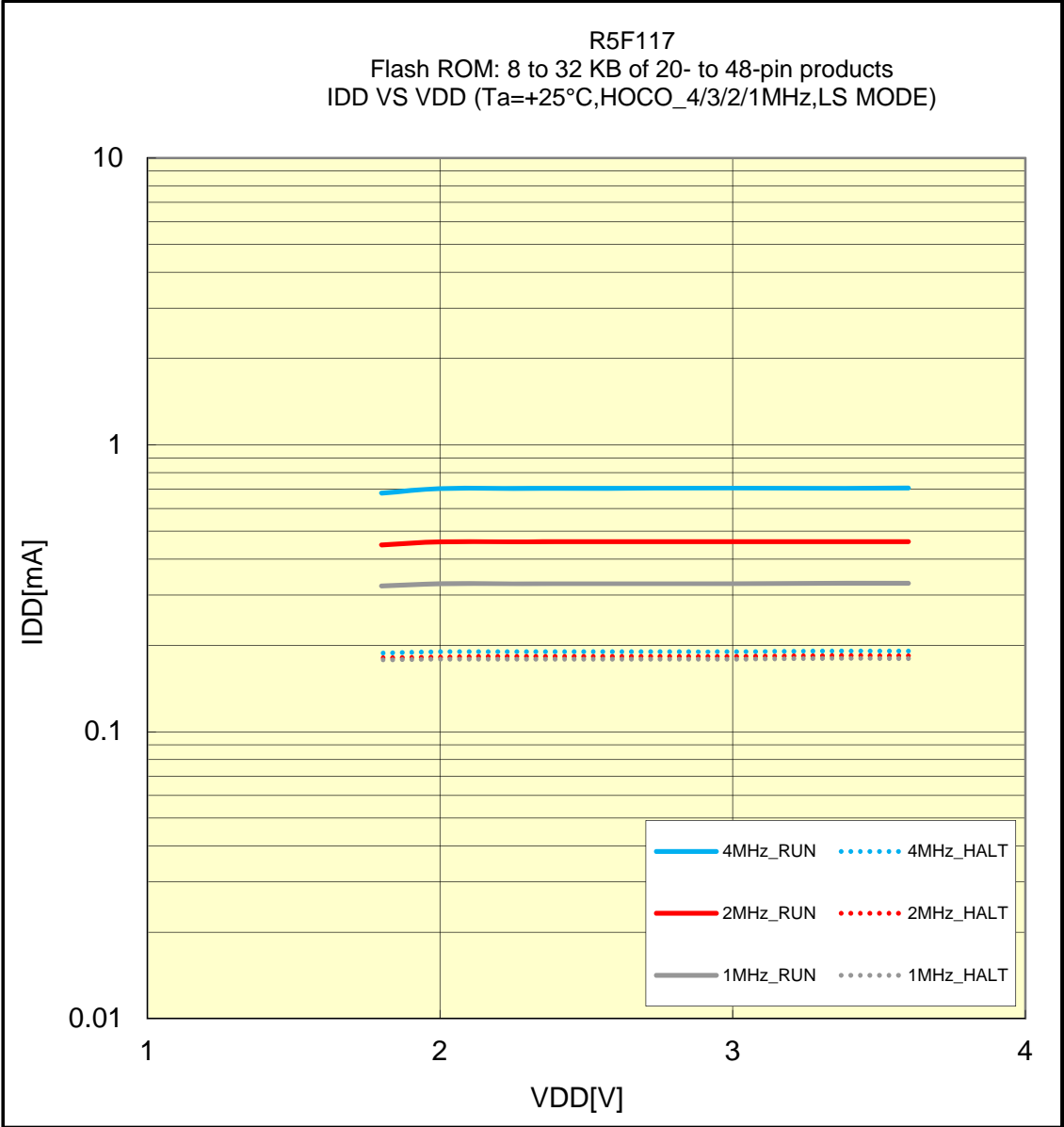IDD VS VDD (Ta=+25°C,HOCO_4/3/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/MOCO_4/2/1MHz/LS MODE (MCSEL=1))

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+25°C,MOCO_4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/X'TAL/LS MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
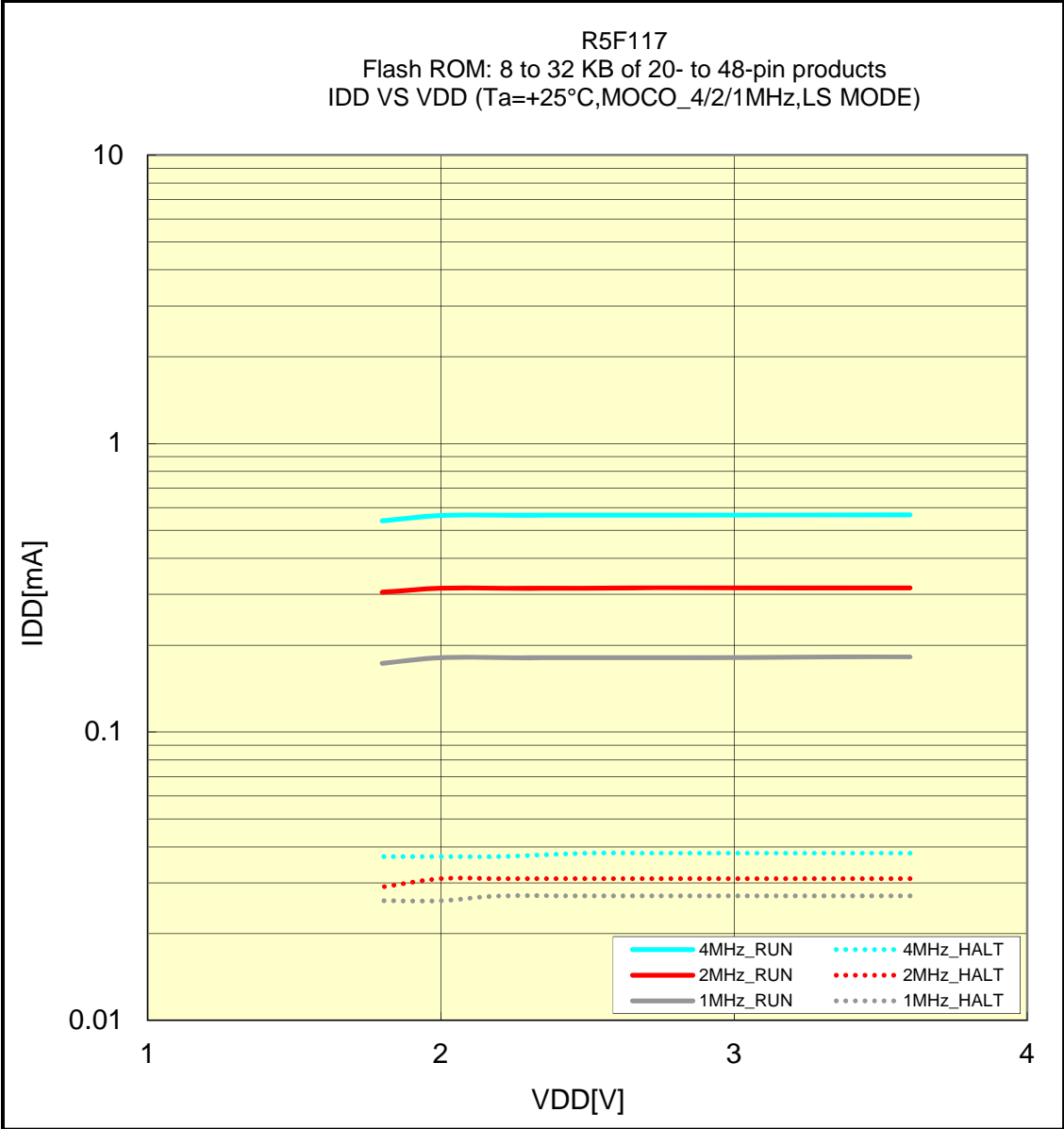IDD VS VDD (Ta=+25°C,X'TAL,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/HOCO_4/2/1MHz/LV MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
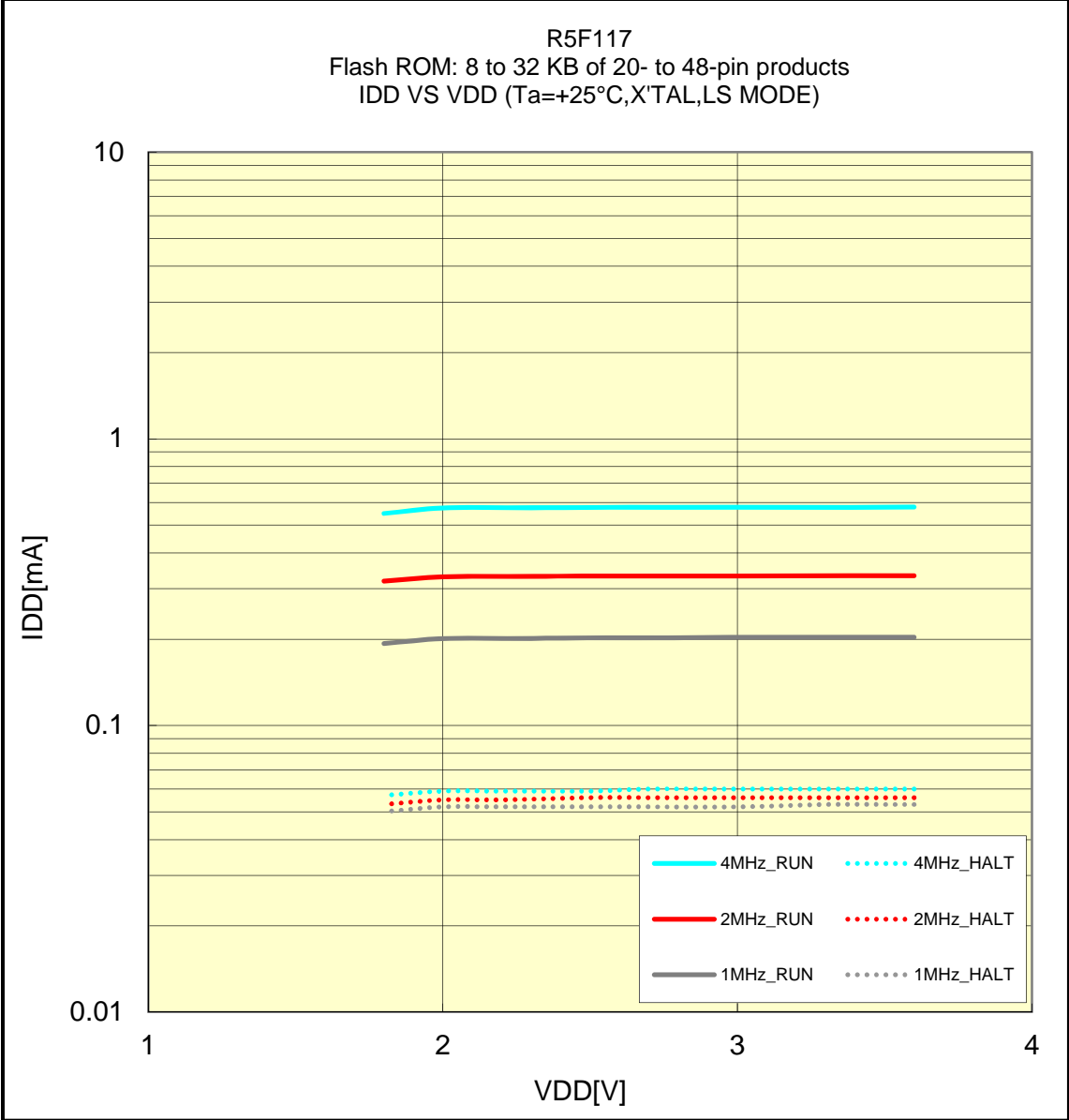IDD VS VDD (Ta=+25°C,HOCO_4/2/1MHz,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/MOCO_4/2/1MHz/LV MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
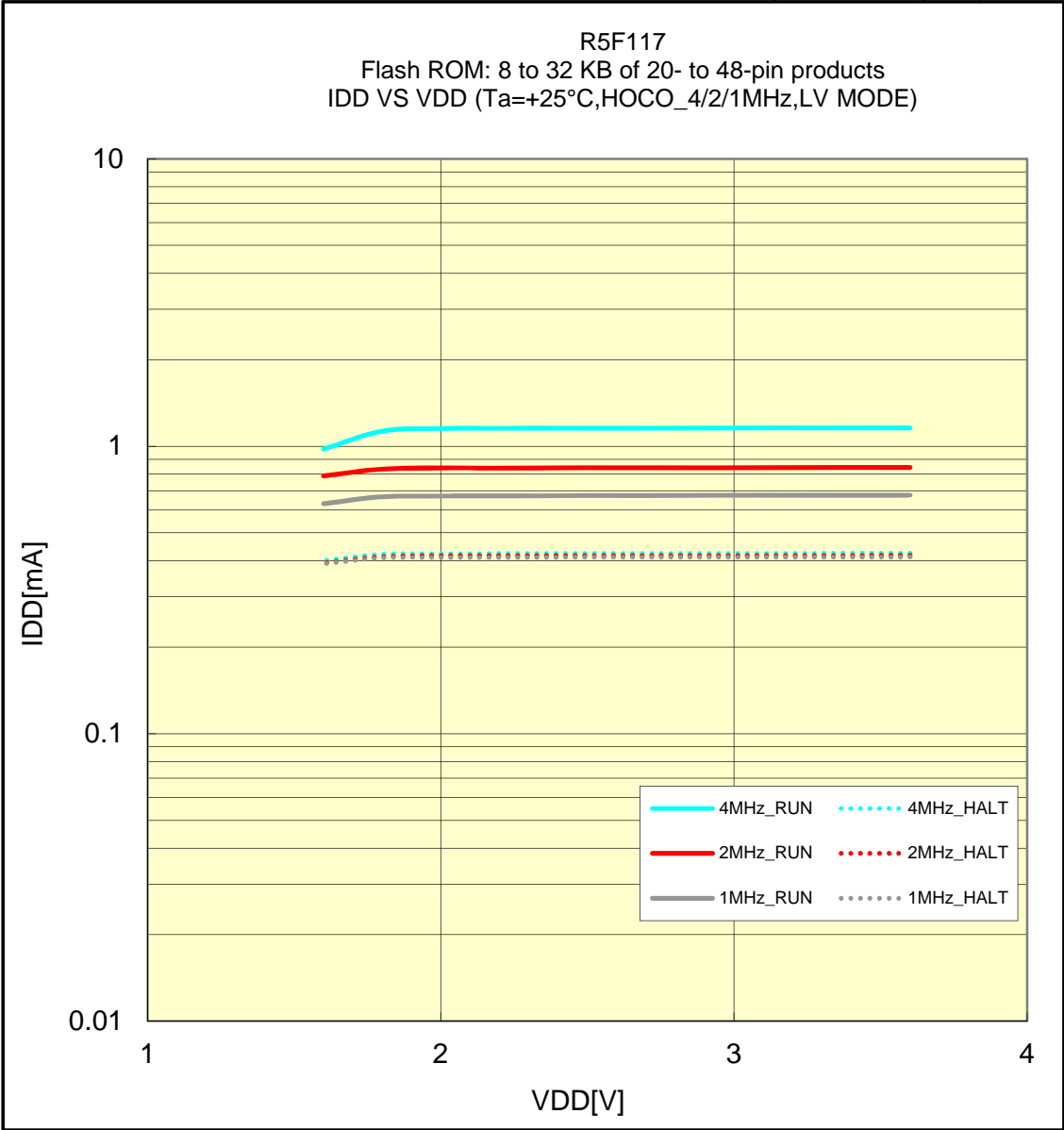IDD VS VDD (Ta=+25°C,MOCO_4/2/1MHz,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/X'TAL/LV MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
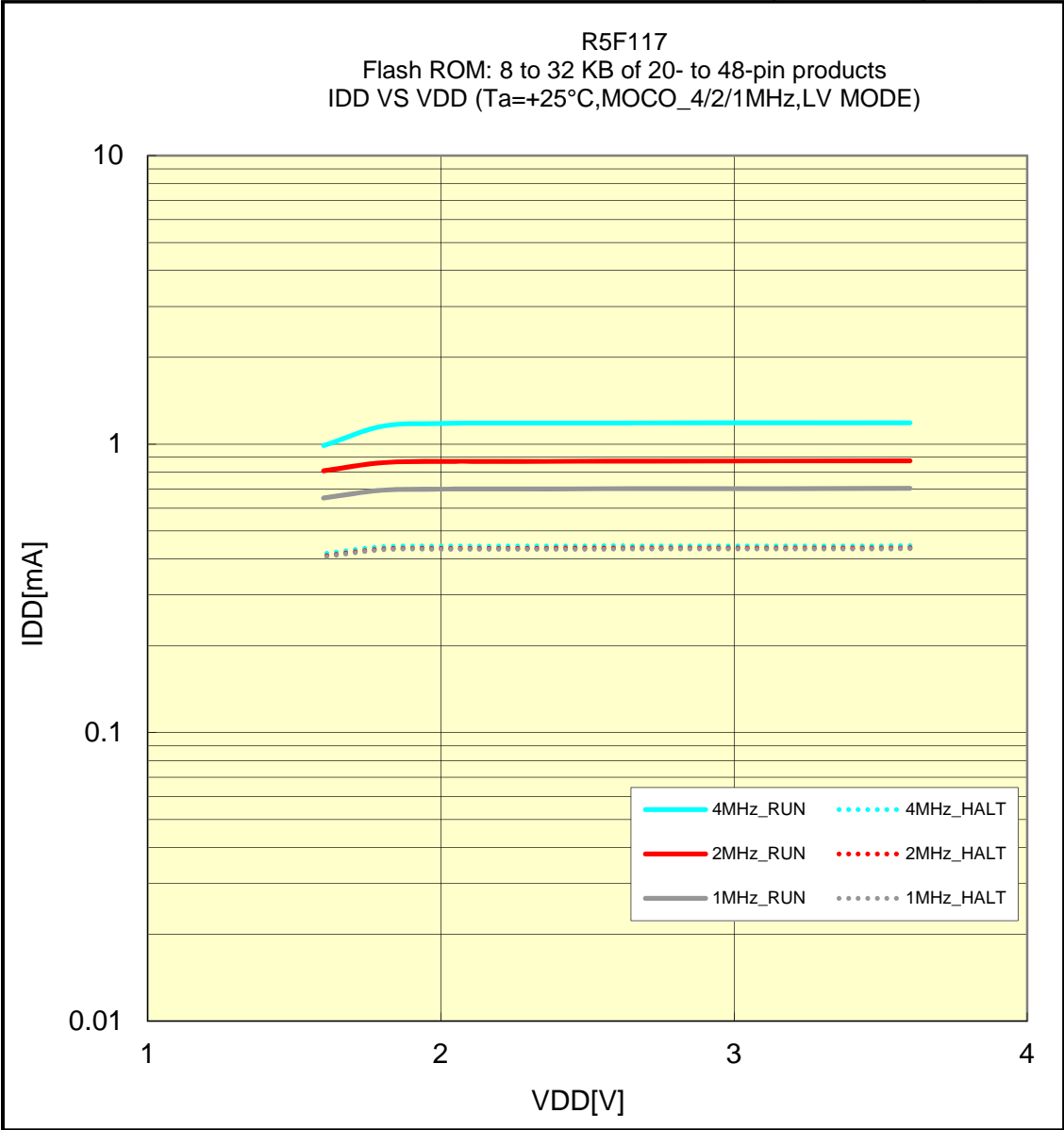IDD VS VDD (Ta=+25°C,X'TAL,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/HOCO_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
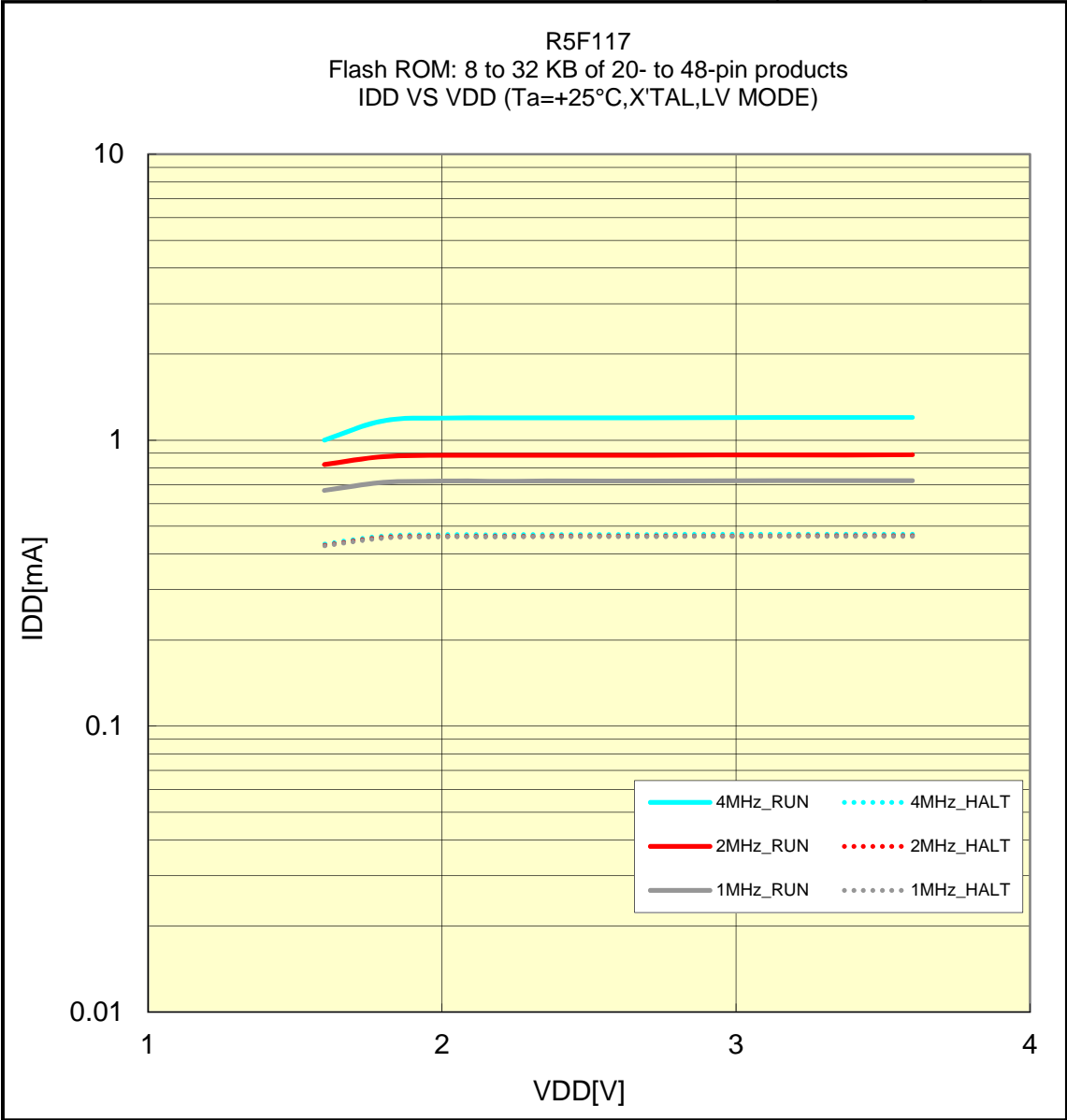IDD VS VDD (Ta=+25°C,HOCO_1MHz,LP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/MOCO_1MHz/LP MODE (MCSEL=1))

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
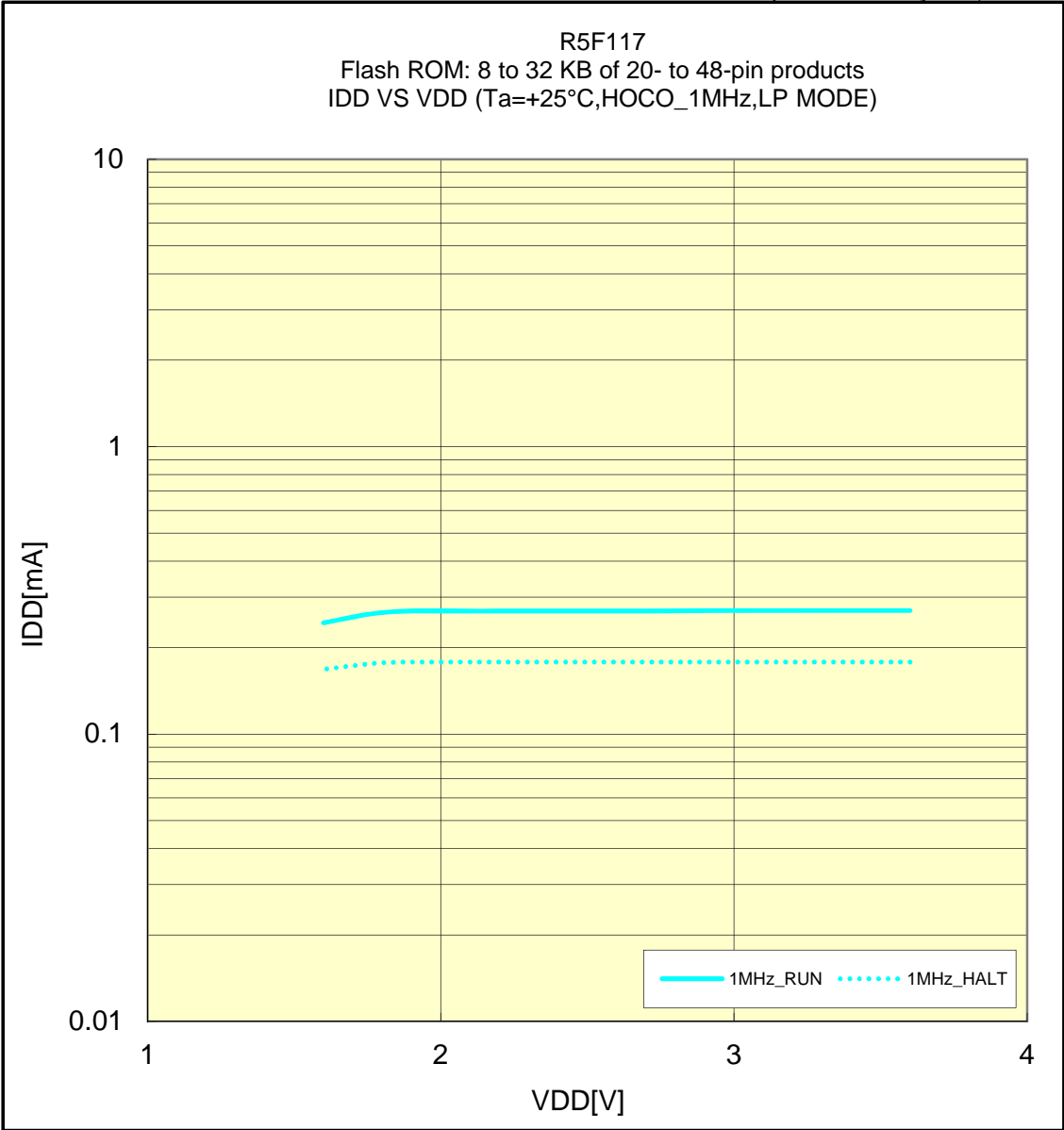IDD VS VDD (Ta=+25°C,MOCO_1MHz,LP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/X'TAL_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
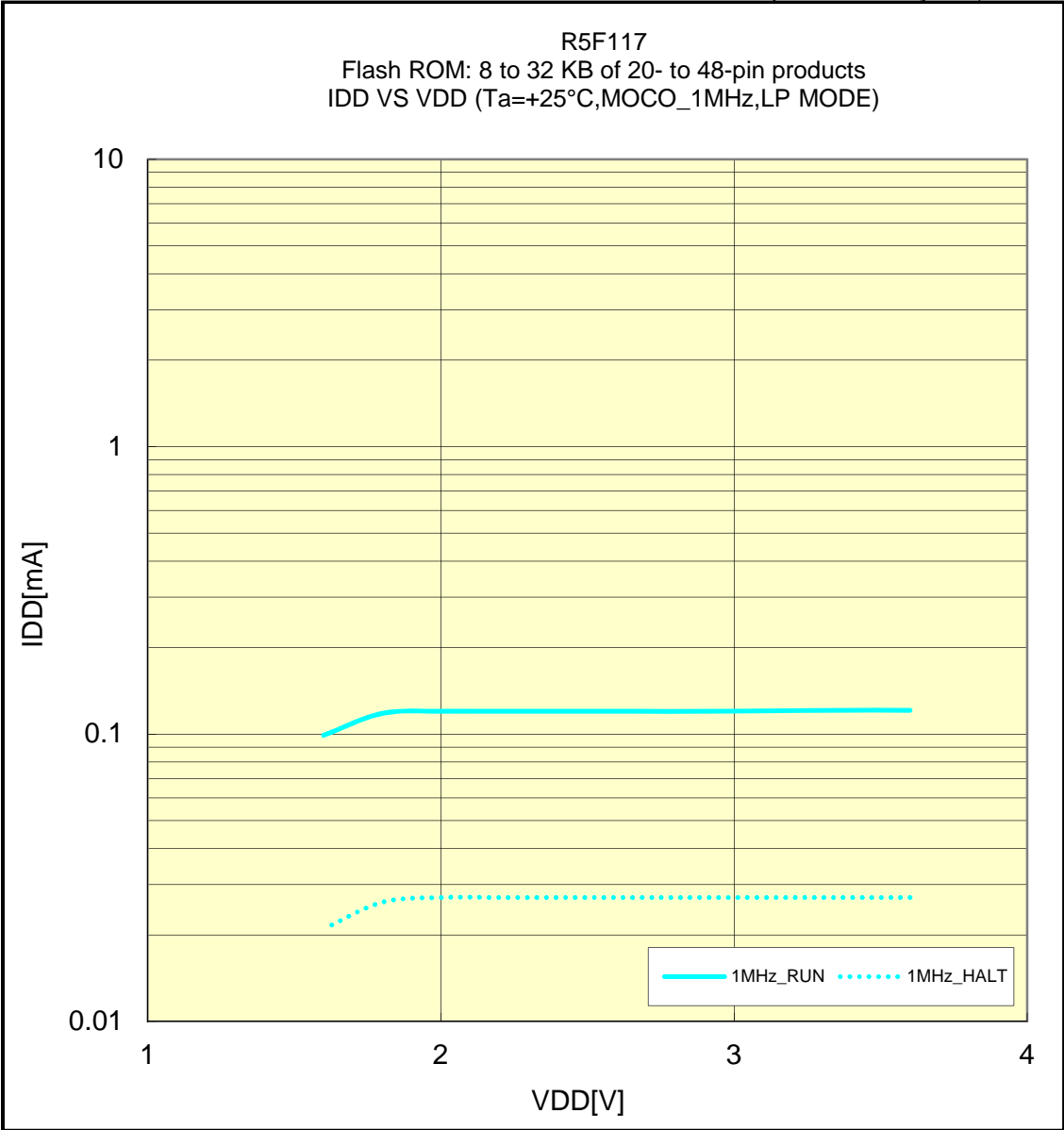IDD VS VDD (Ta=+25°C,X'TAL_1MHz,LP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+25°C/sub_clock/32.768KHz)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+25°C,sub_clock,32.768KHz)

Legend:
- RUN(Low power consumption oscillation)
- HALT(Low power consumption oscillation)
- RUN(Normal oscillation)
- HALT(Normal oscillation)
- RUN(Ultra-low power consumption oscillation)
- HALT(Ultra-low power consumption oscillation)
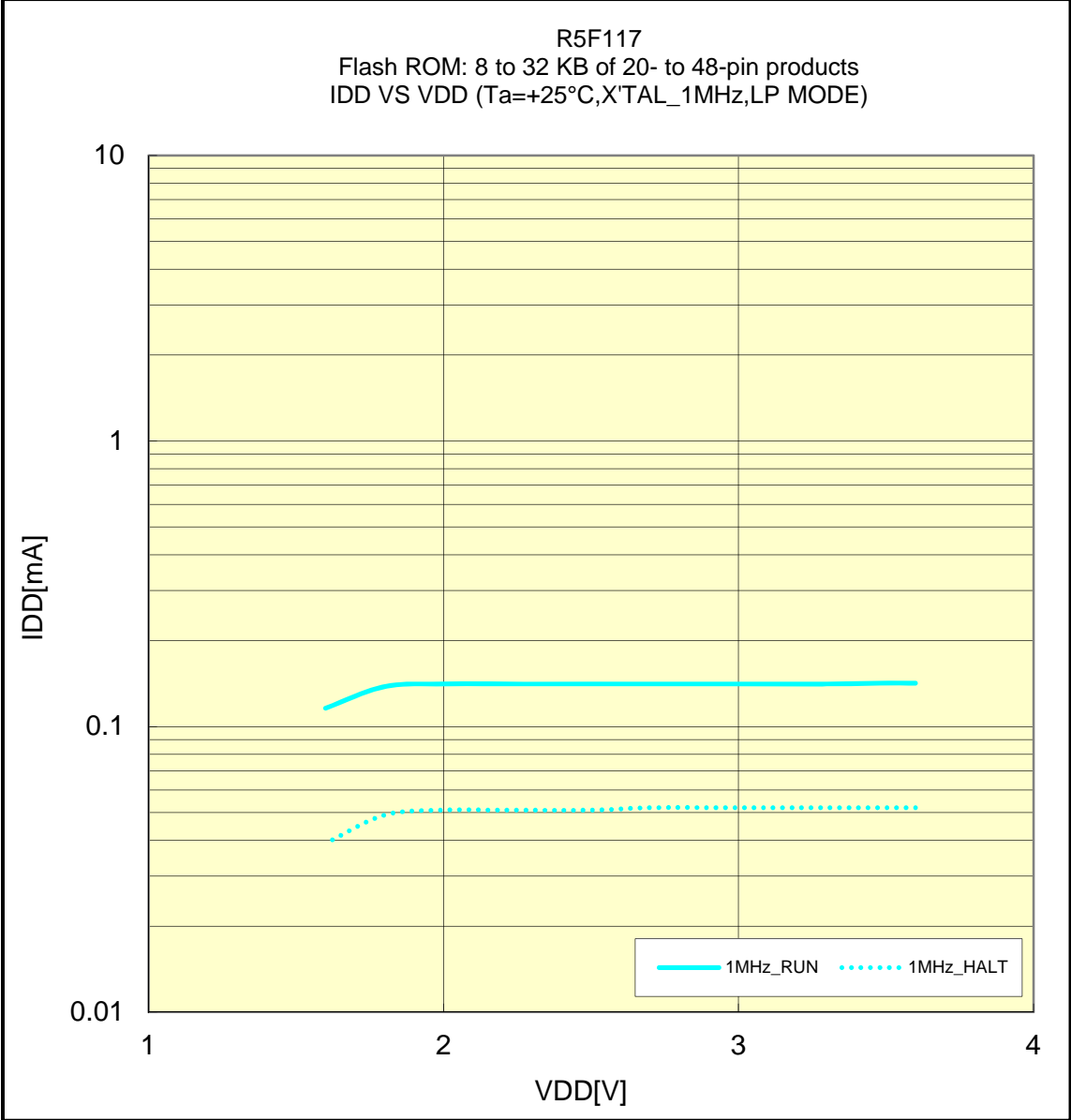
Y-axis: IDD[uA]
X-axis: VDD[V]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/HOCO_16/8/4/2/1MHz/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
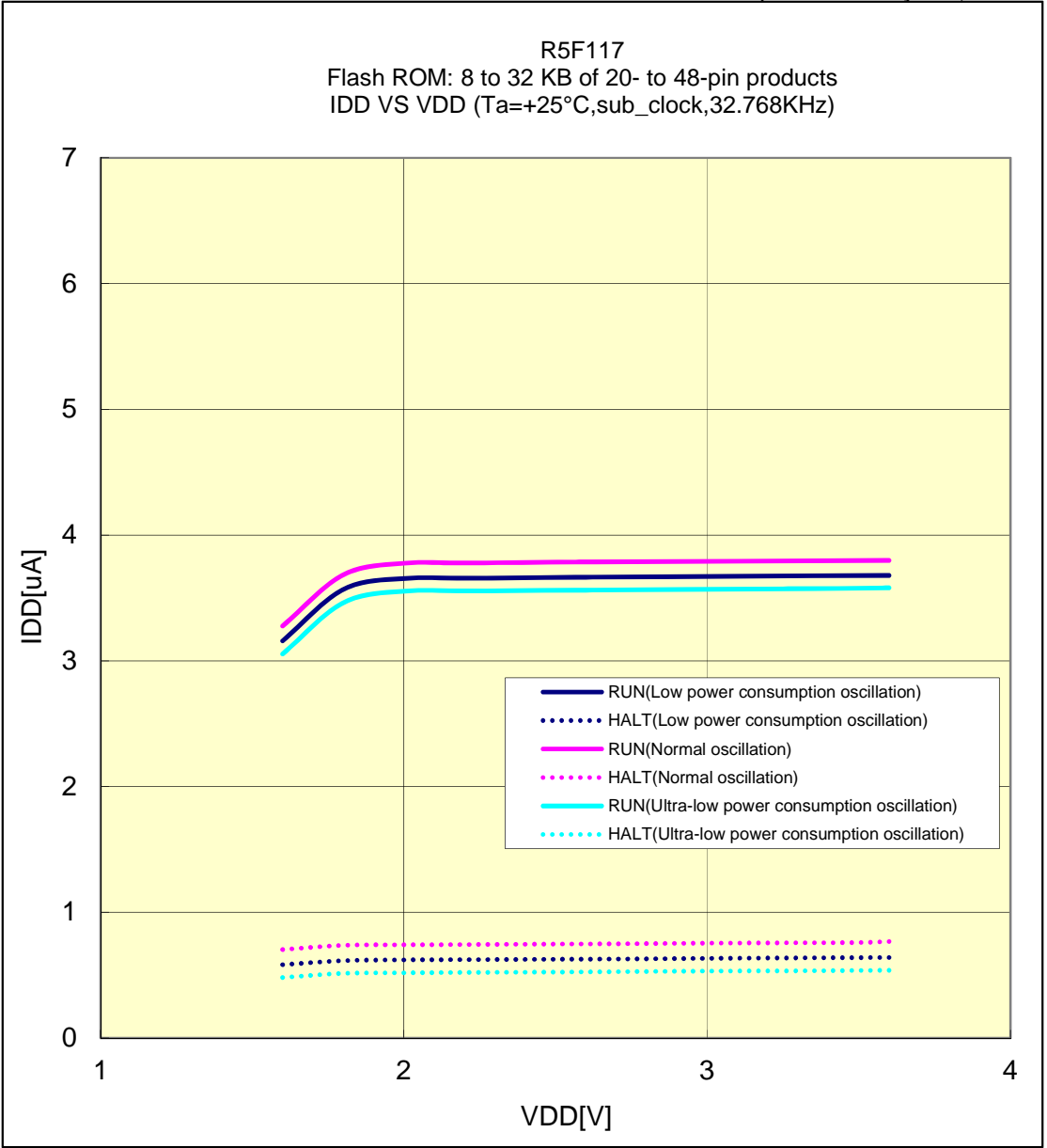IDD VS VDD (Ta=+85°C,HOCO_16/8/4/2/1MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/HOCO_24/12/6/3MHz/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,HOCO_24/12/6/3MHz,HS MODE)

Legend:
- 24MHz_RUN — 24MHz_HALT
- 12MHz_RUN — 12MHz_HALT
- 6MHz_RUN — 6MHz_HALT
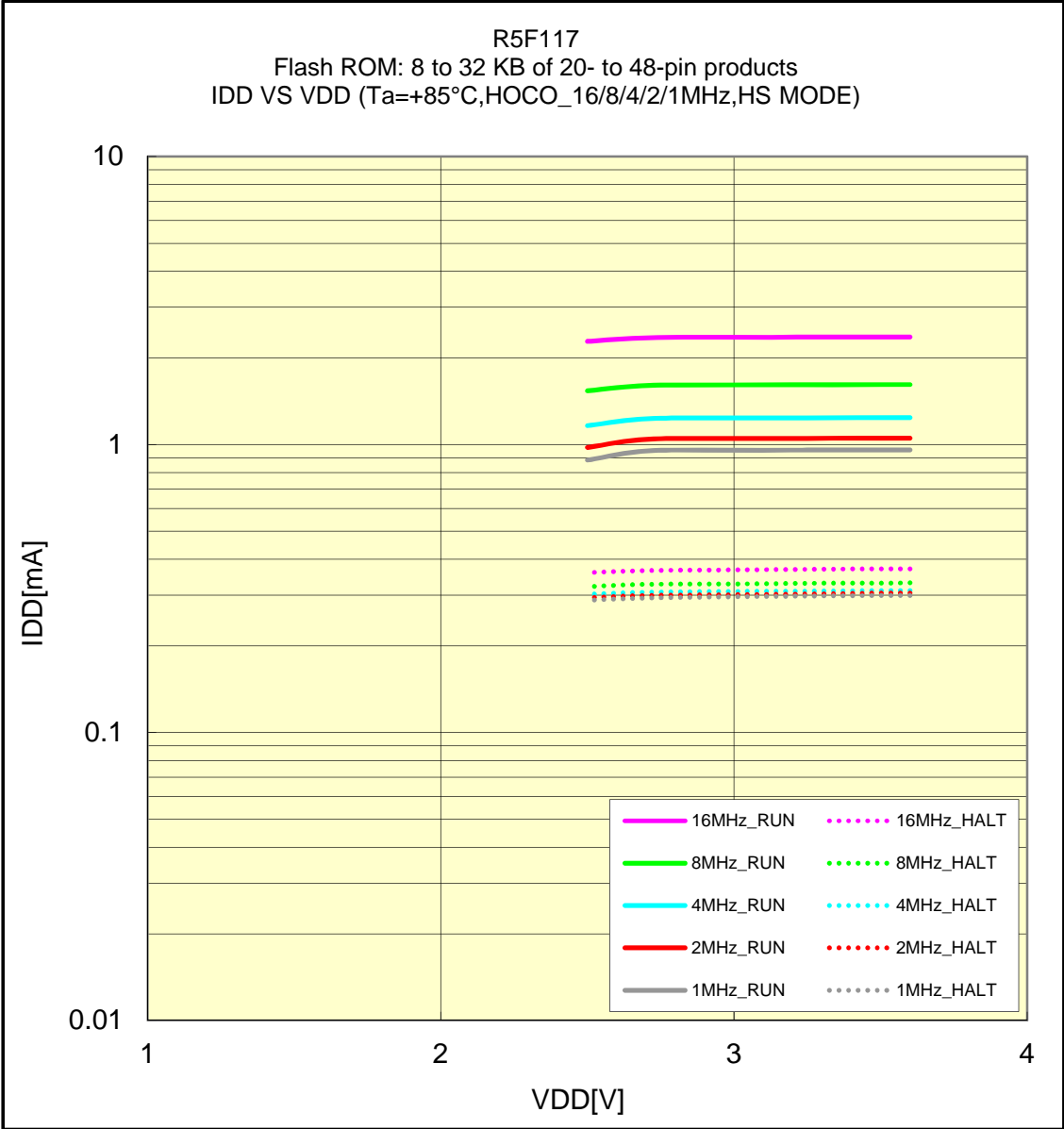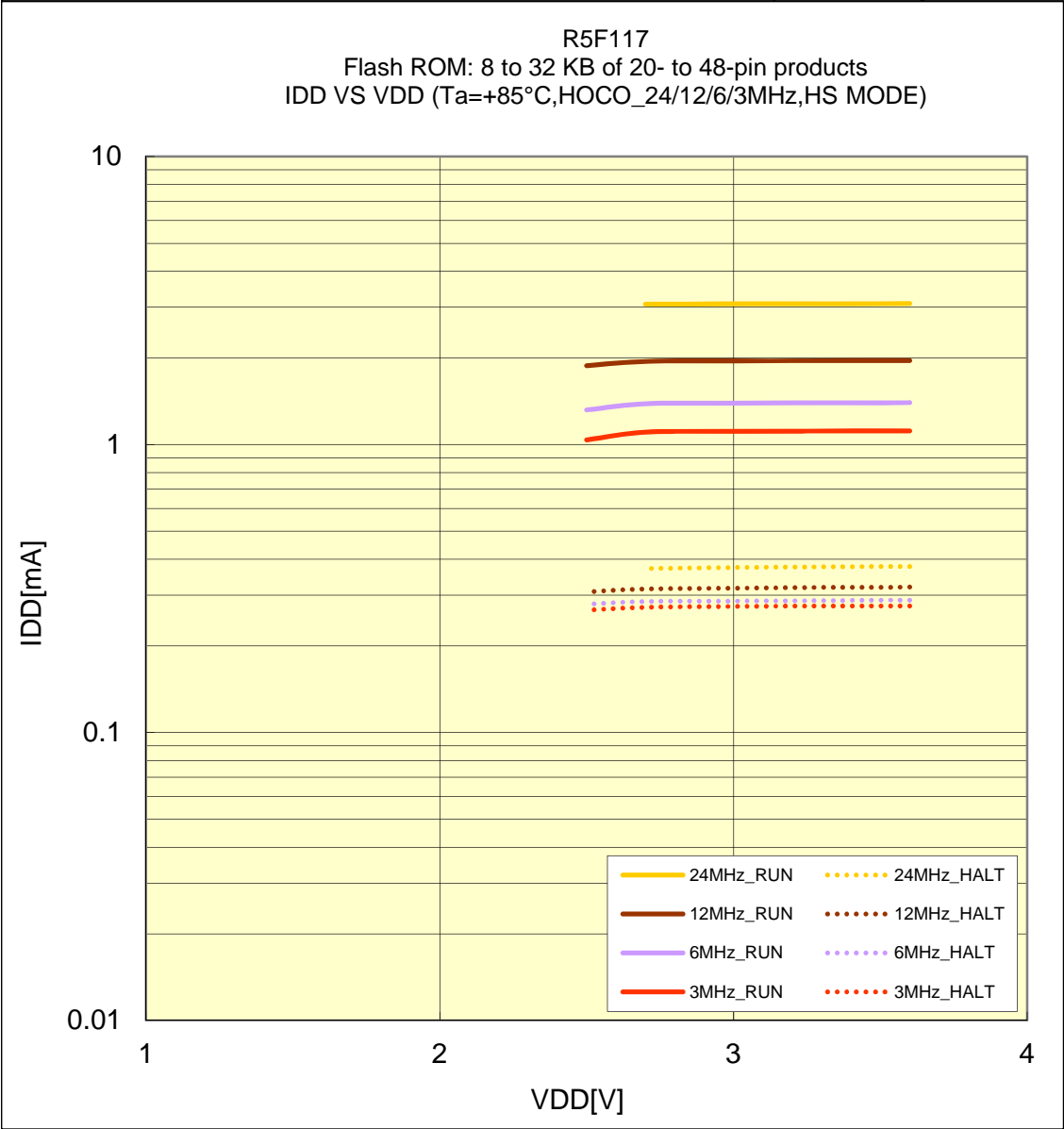- 3MHz_RUN — 3MHz_HALT

Axis: IDD[mA] vs VDD[V]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/MOCO_4/2/1MHz/HS MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,MOCO_4/2/1MHz,HS MODE)

4MHz_RUN ...... 4MHz_HALT
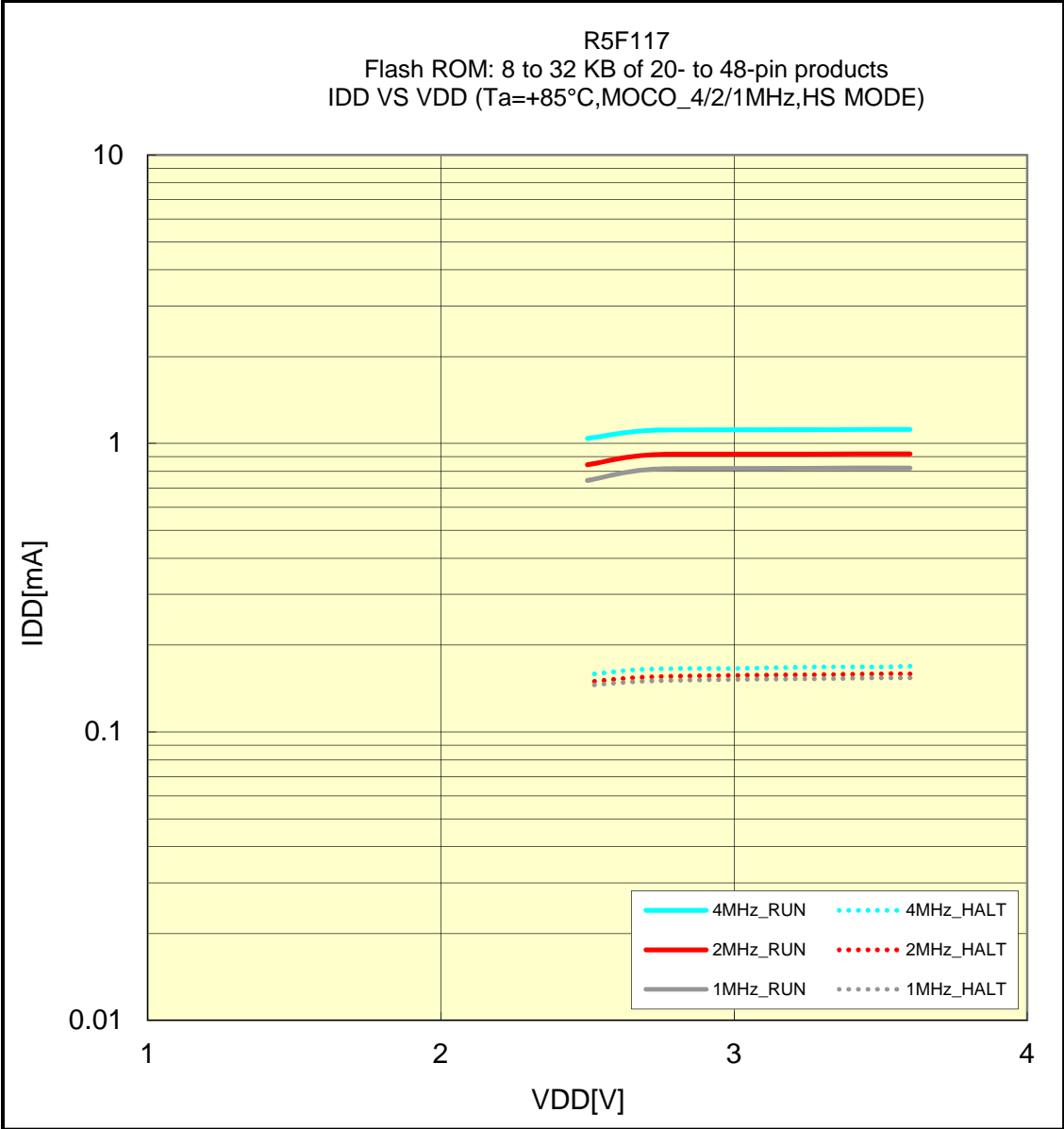2MHz_RUN ...... 2MHz_HALT
1MHz_RUN ...... 1MHz_HALT

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/X'TAL/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,X'TAL,HS MODE)

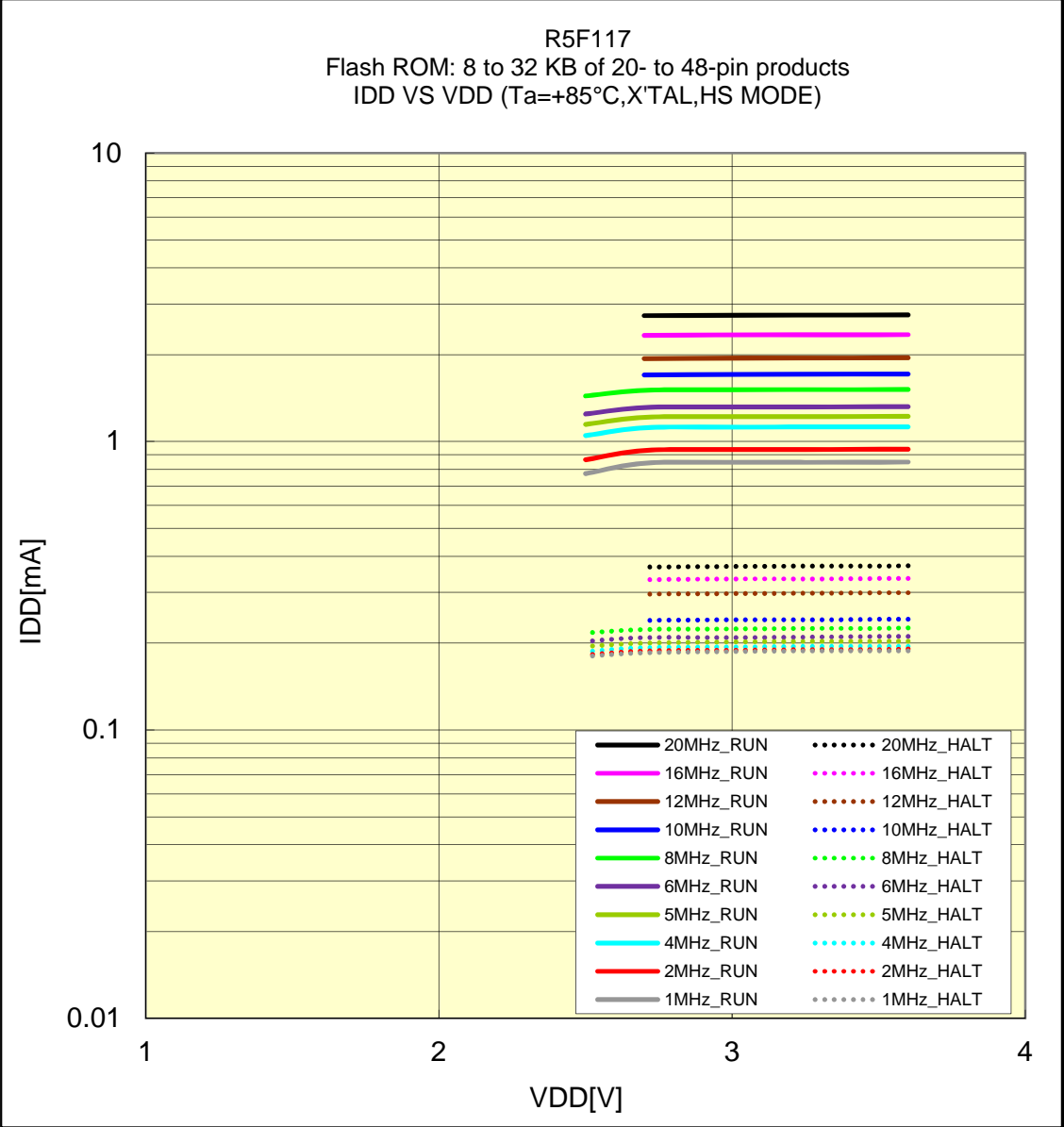|	
—— 20MHz_RUN	······ 20MHz_HALT
—— 16MHz_RUN	······ 16MHz_HALT
—— 12MHz_RUN	······ 12MHz_HALT
—— 10MHz_RUN	······ 10MHz_HALT
—— 8MHz_RUN	······ 8MHz_HALT
—— 6MHz_RUN	······ 6MHz_HALT
—— 5MHz_RUN	······ 5MHz_HALT
—— 4MHz_RUN	······ 4MHz_HALT
—— 2MHz_RUN	······ 2MHz_HALT
—— 1MHz_RUN	······ 1MHz_HALT

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/HOCO_8/4/2/1MHz/LS MODE (MCSEL=0))

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
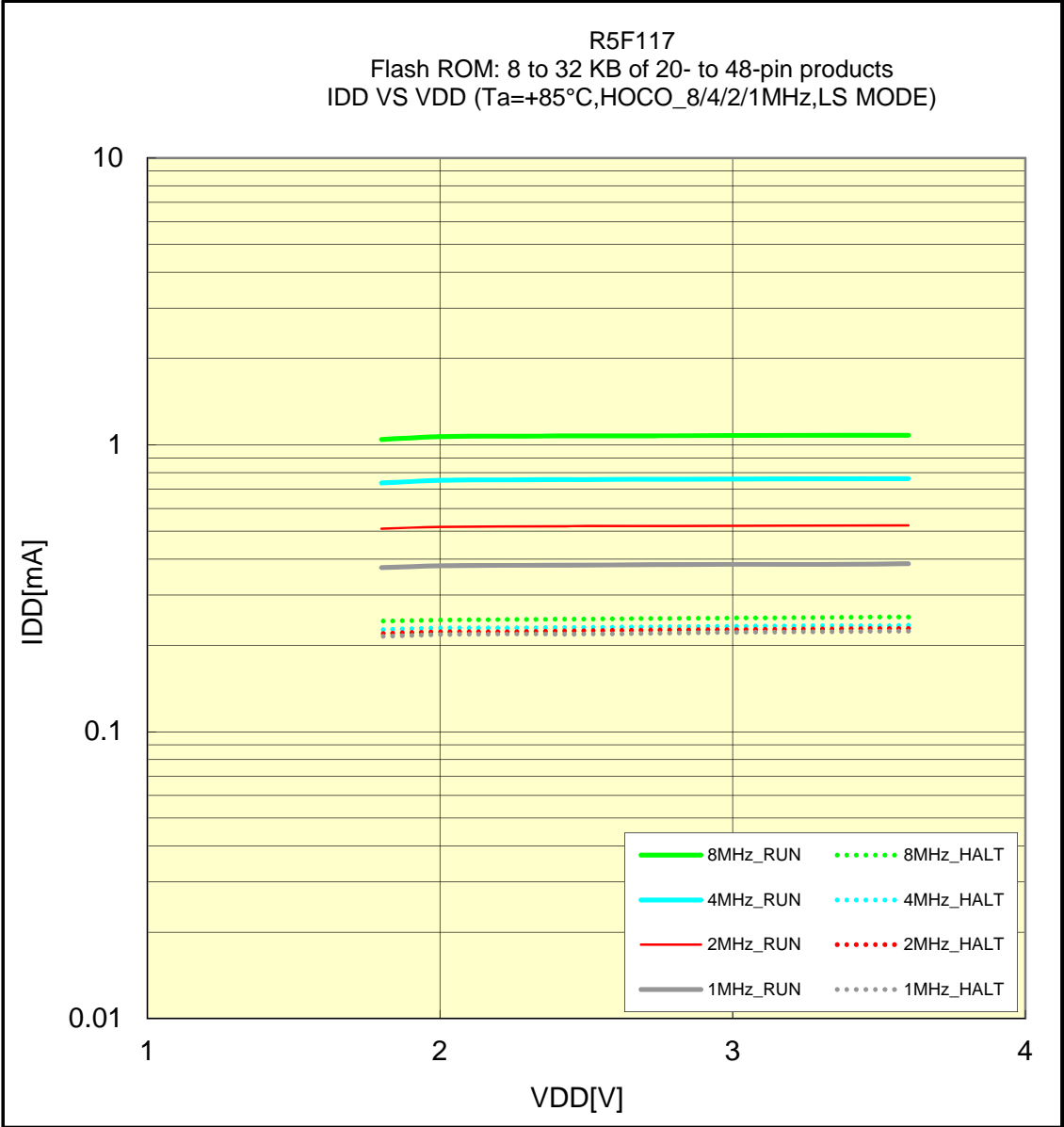IDD VS VDD (Ta=+85°C,HOCO_8/4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/MOCO_4/2/1MHz/LS MODE (MCSEL=0))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
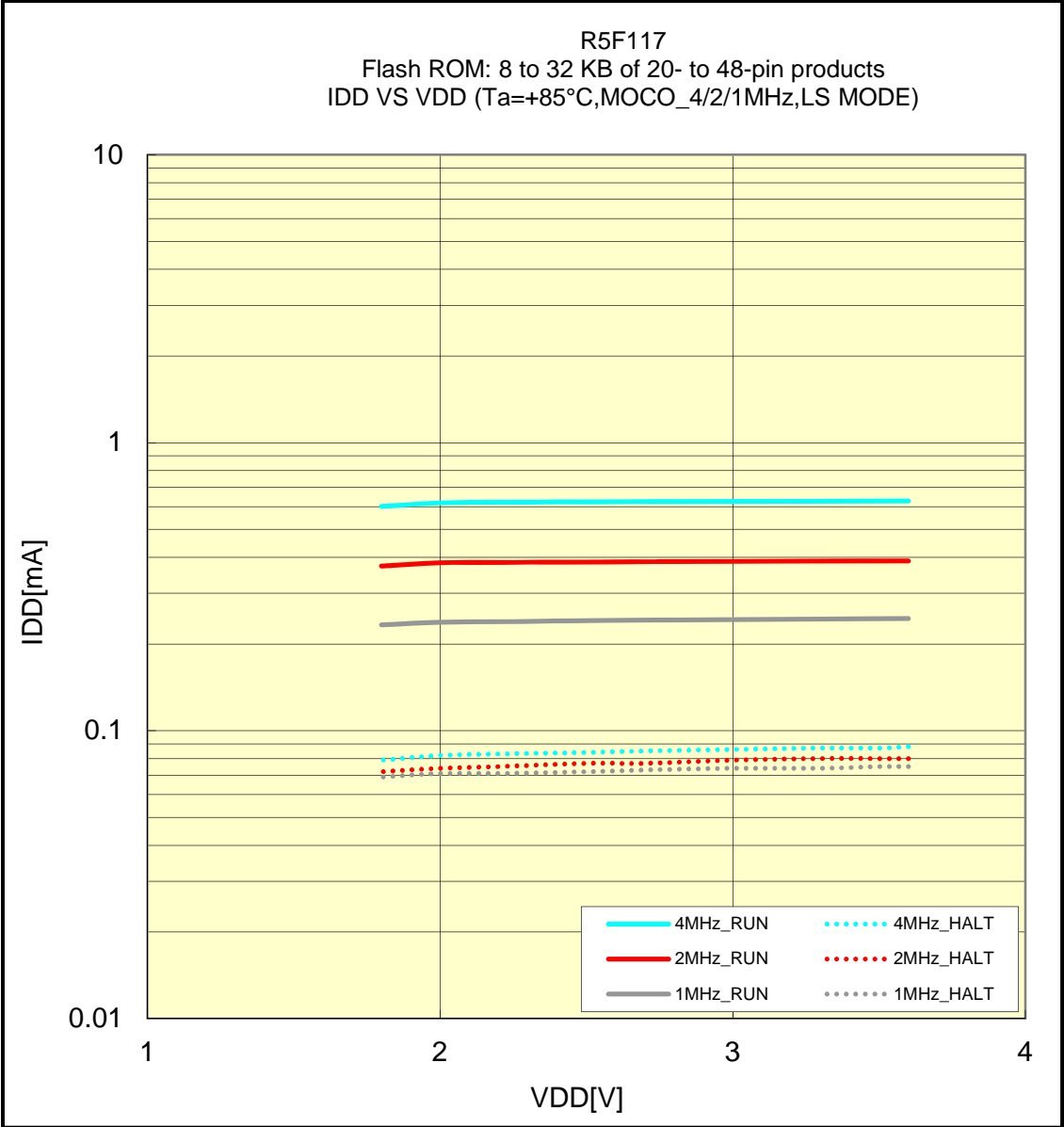IDD VS VDD (Ta=+85°C,MOCO_4/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/X'TAL/LS MODE (MCSEL=0))
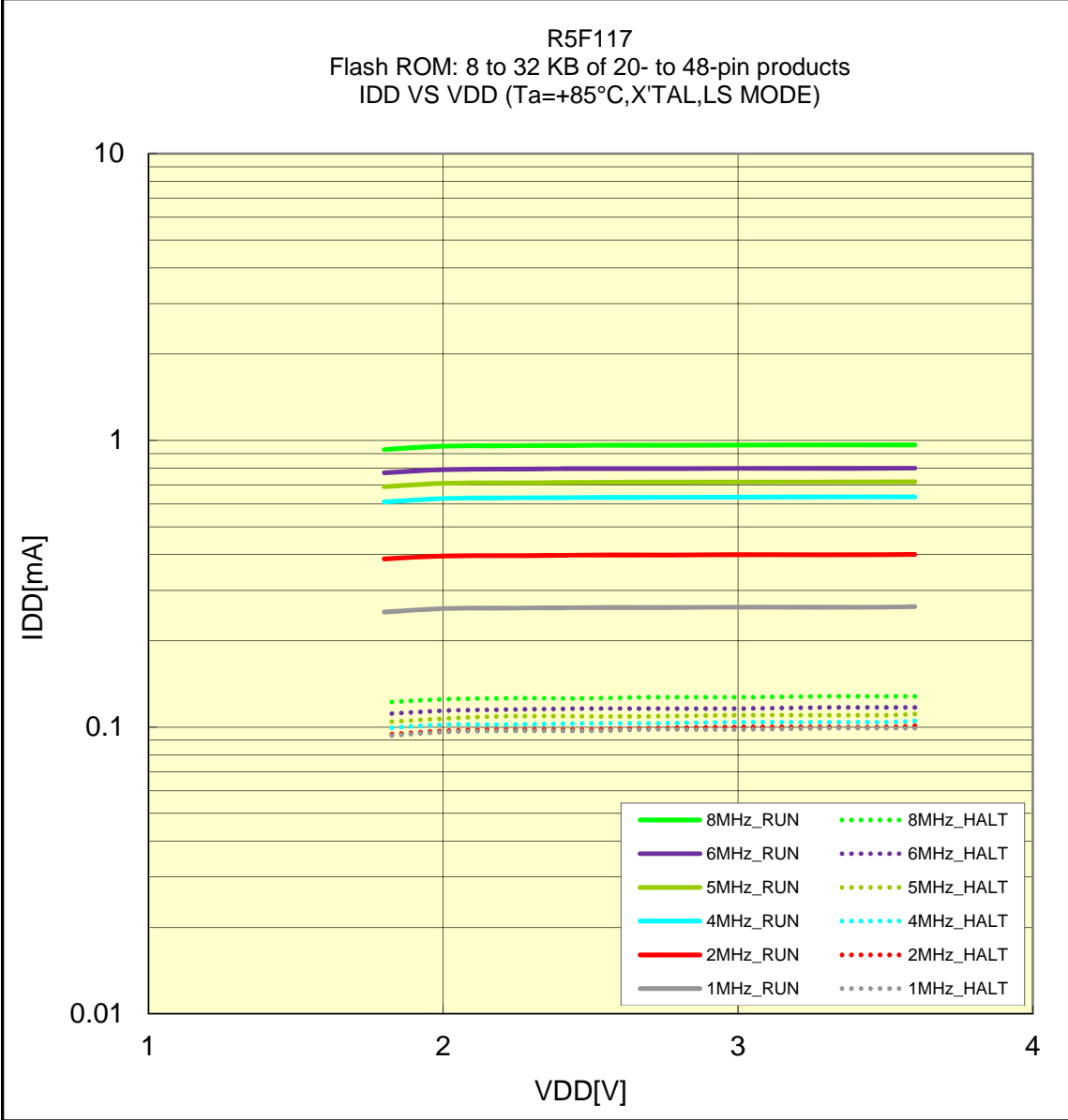
Prepared on May 9th, 2014

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/HOCO_4/2/1MHz/LS MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
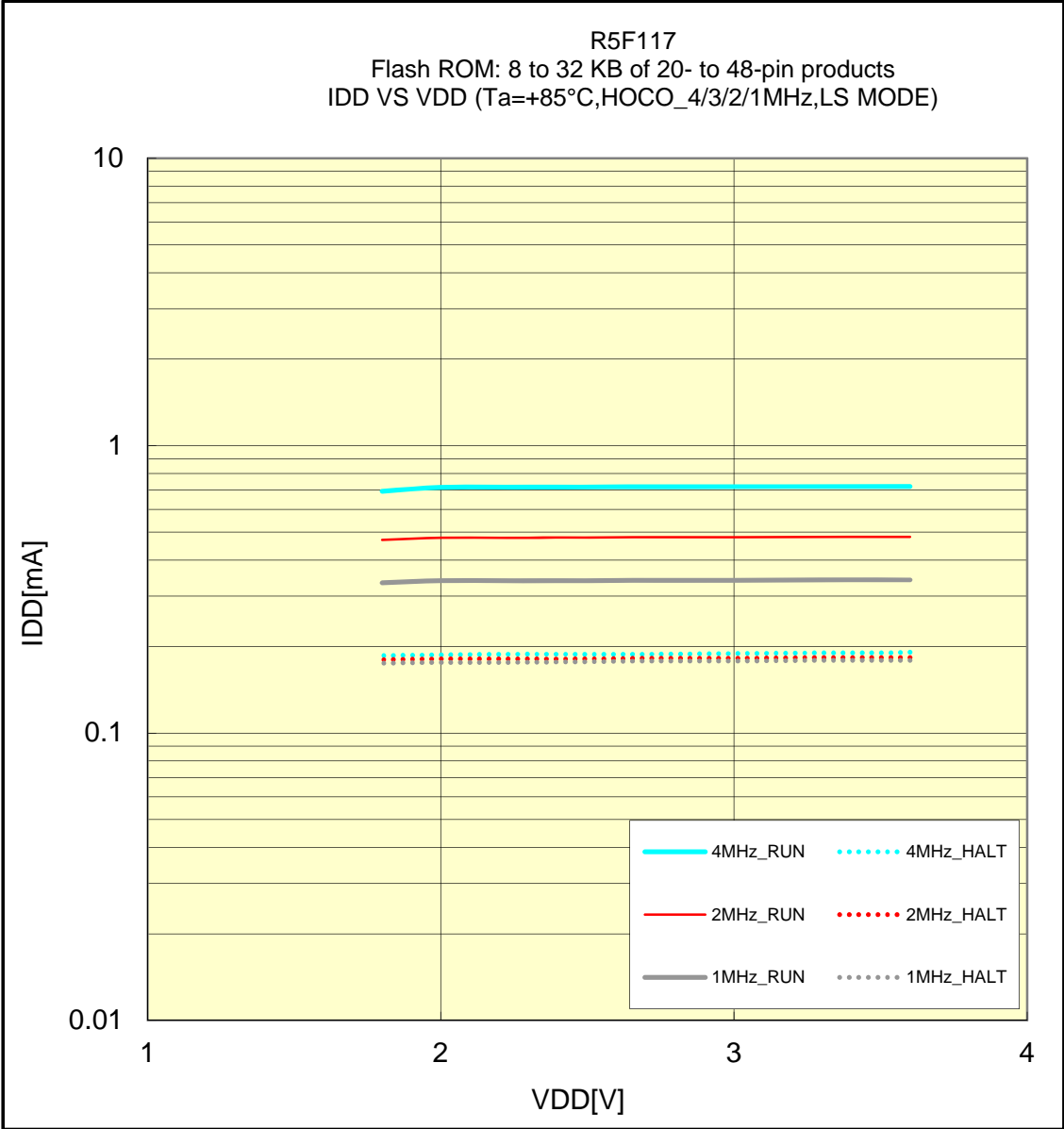IDD VS VDD (Ta=+85°C,HOCO_4/3/2/1MHz,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/MOCO_4/2/1MHz/LS MODE (MCSEL=1))

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,MOCO_4/2/1MHz,LS MODE)

Legend:
- 4MHz_RUN
- 2MHz_RUN
- 1MHz_RUN
- 4MHz_HALT
- 2MHz_HALT
- 1MHz_HALT

Y-axis: IDD[mA]
X-axis: VDD[V]
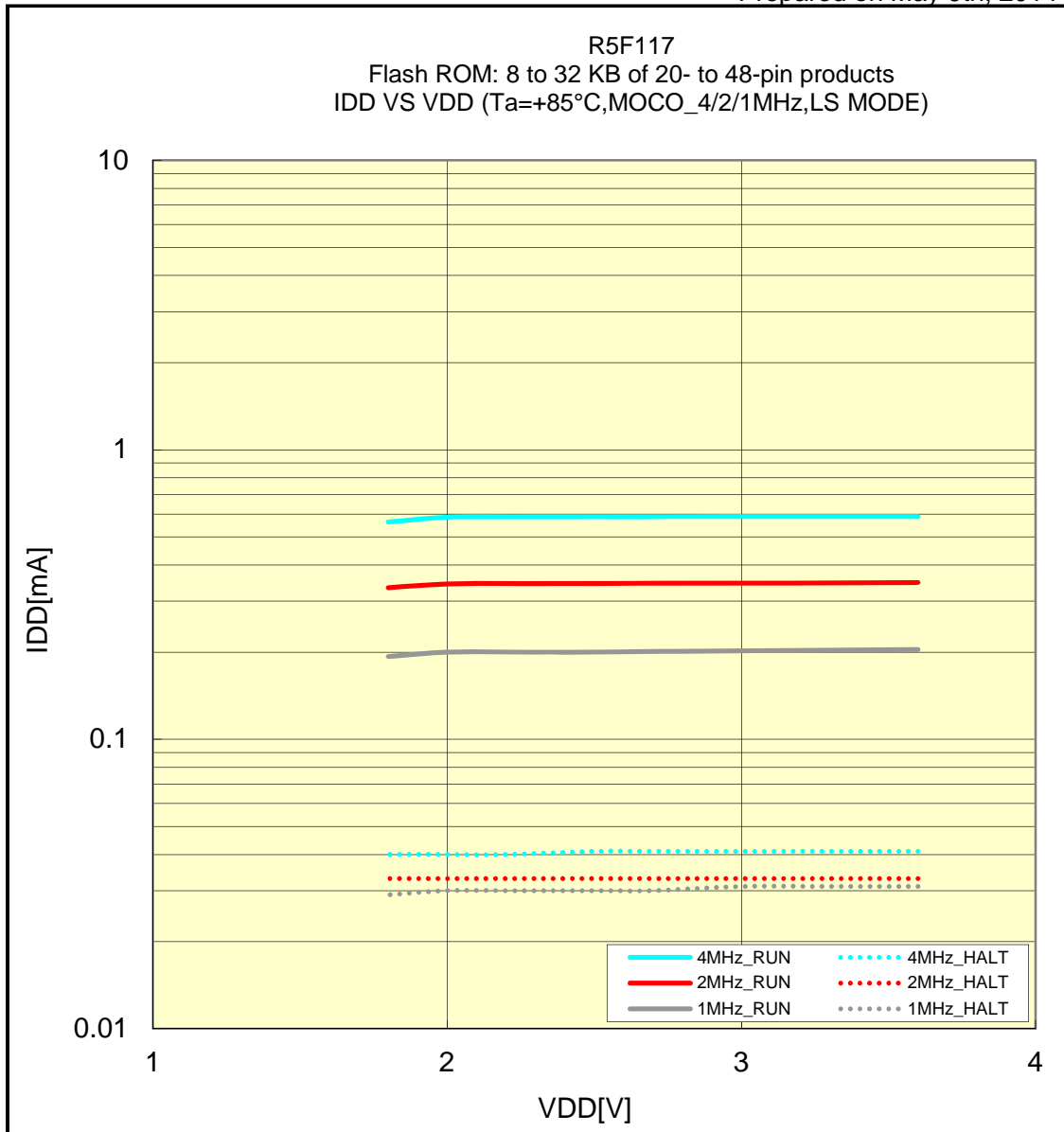
The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/X'TAL/LS MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
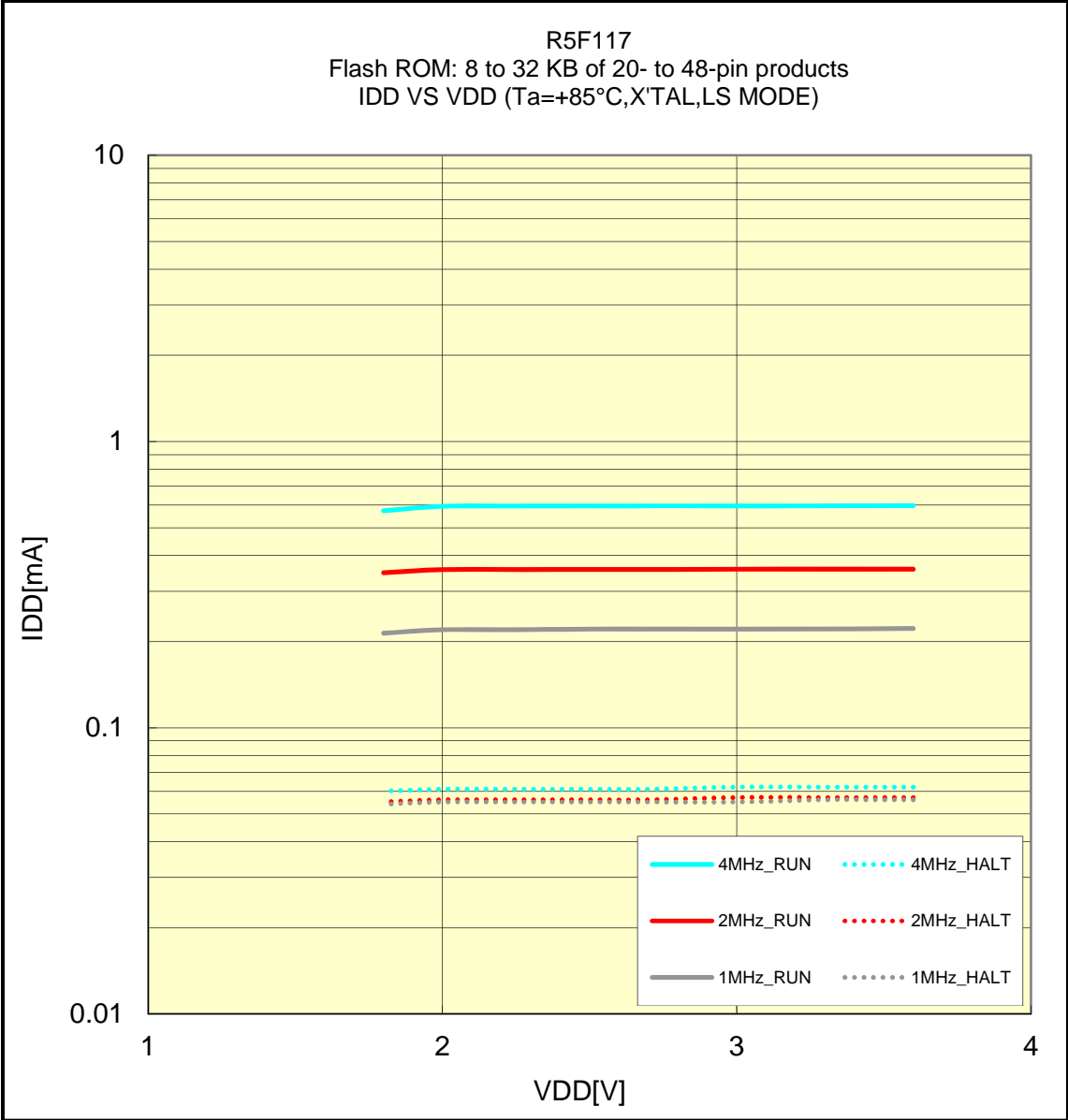IDD VS VDD (Ta=+85°C,X'TAL,LS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/HOCO_4/2/1MHz/LV MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,HOCO_4/2/1MHz,LV MODE)

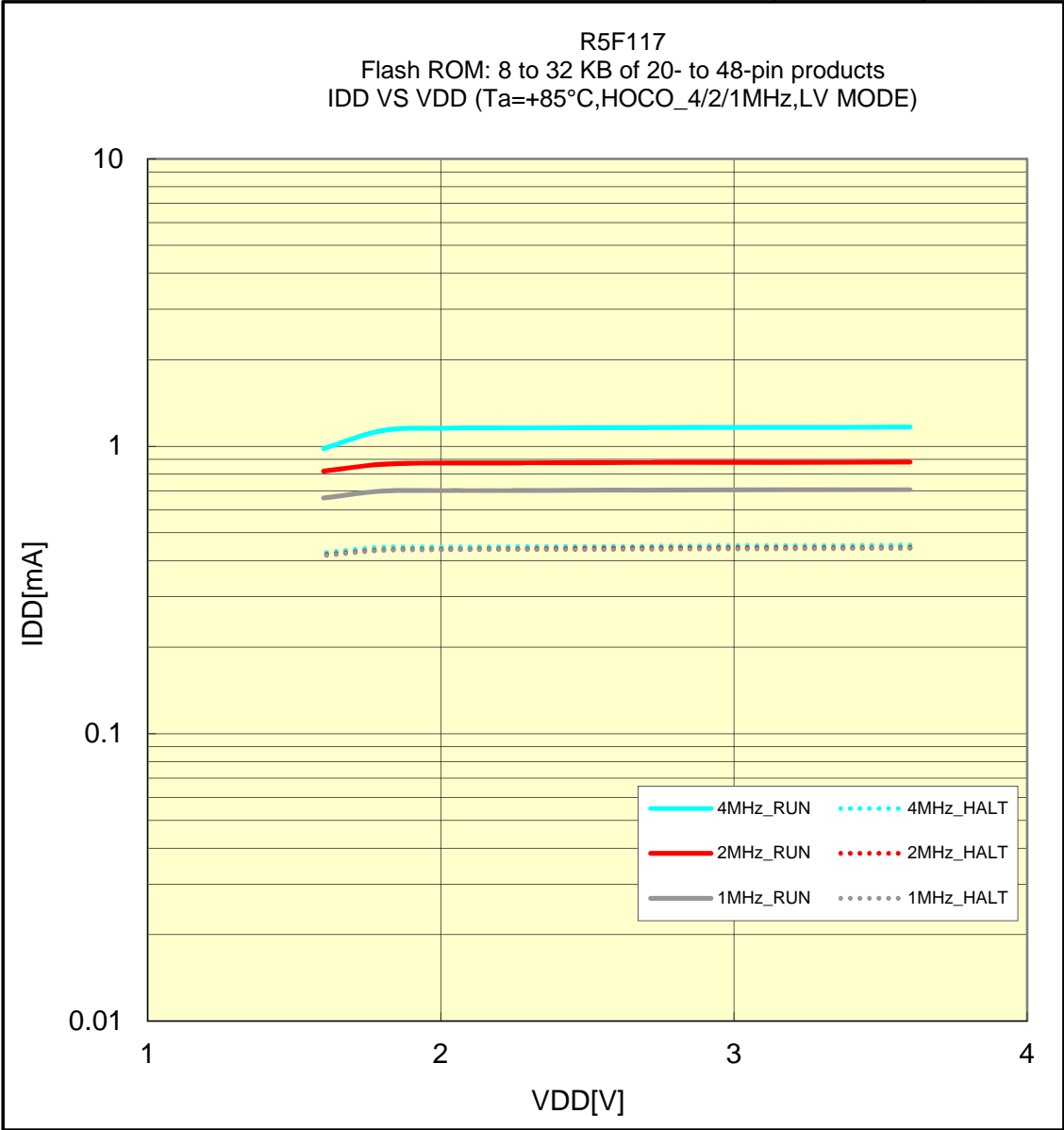|	
4MHz_RUN	4MHz_HALT
2MHz_RUN	2MHz_HALT
1MHz_RUN	1MHz_HALT

IDD[mA]

VDD[V]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/MOCO_4/2/1MHz/LV MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,MOCO_4/2/1MHz,LV MODE)
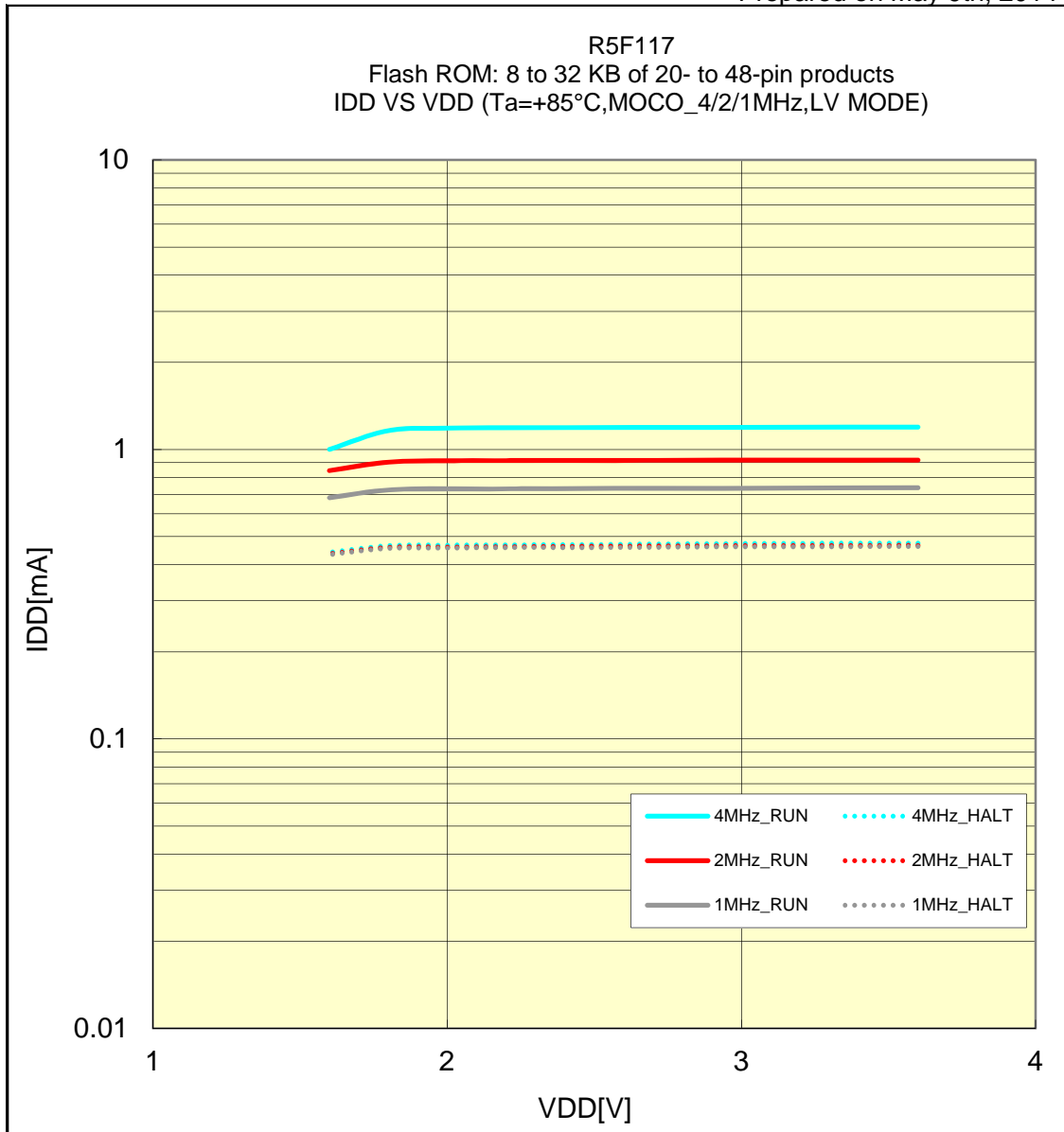
The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/X'TAL/LV MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
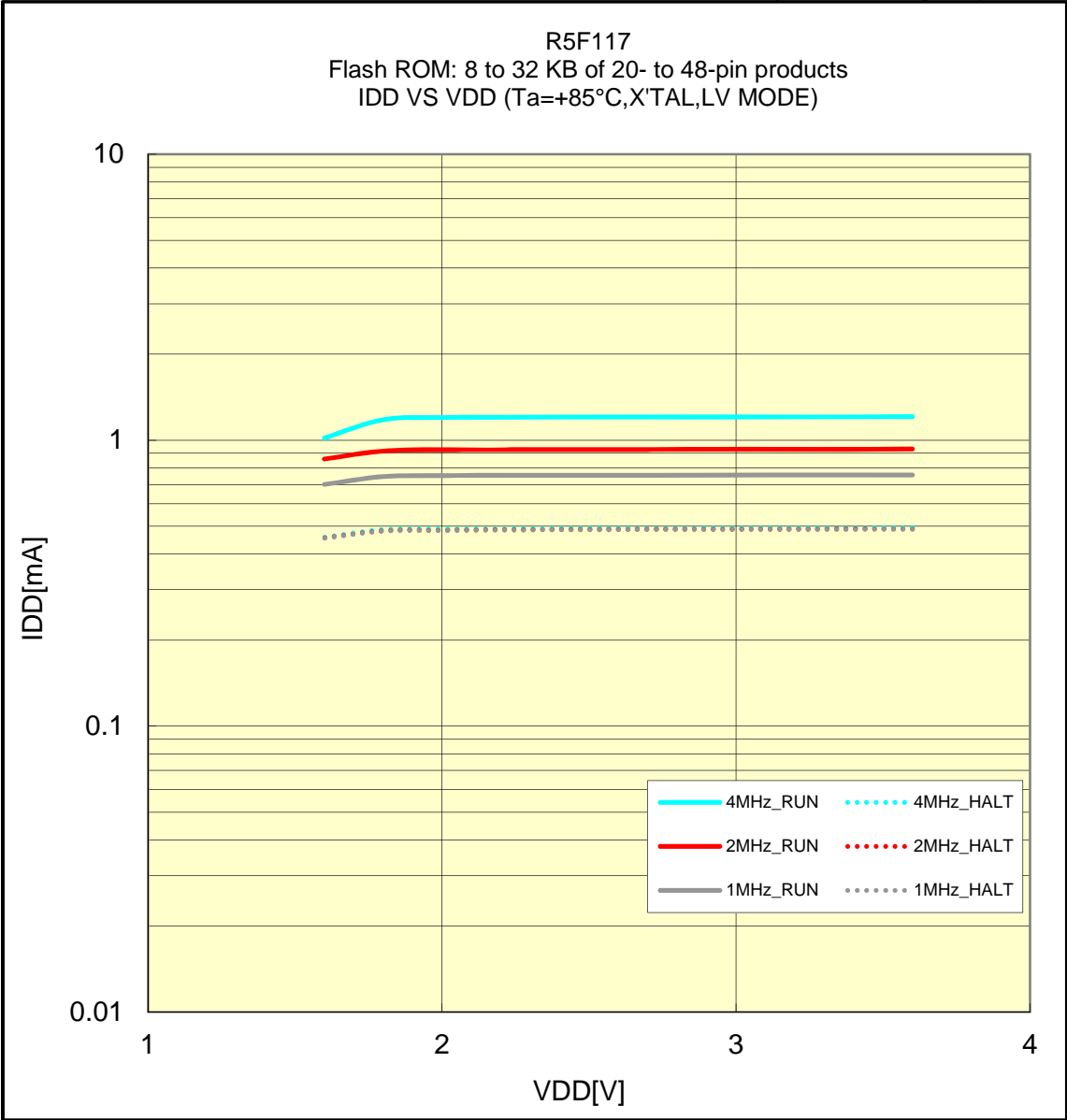IDD VS VDD (Ta=+85°C,X'TAL,LV MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/HOCO_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
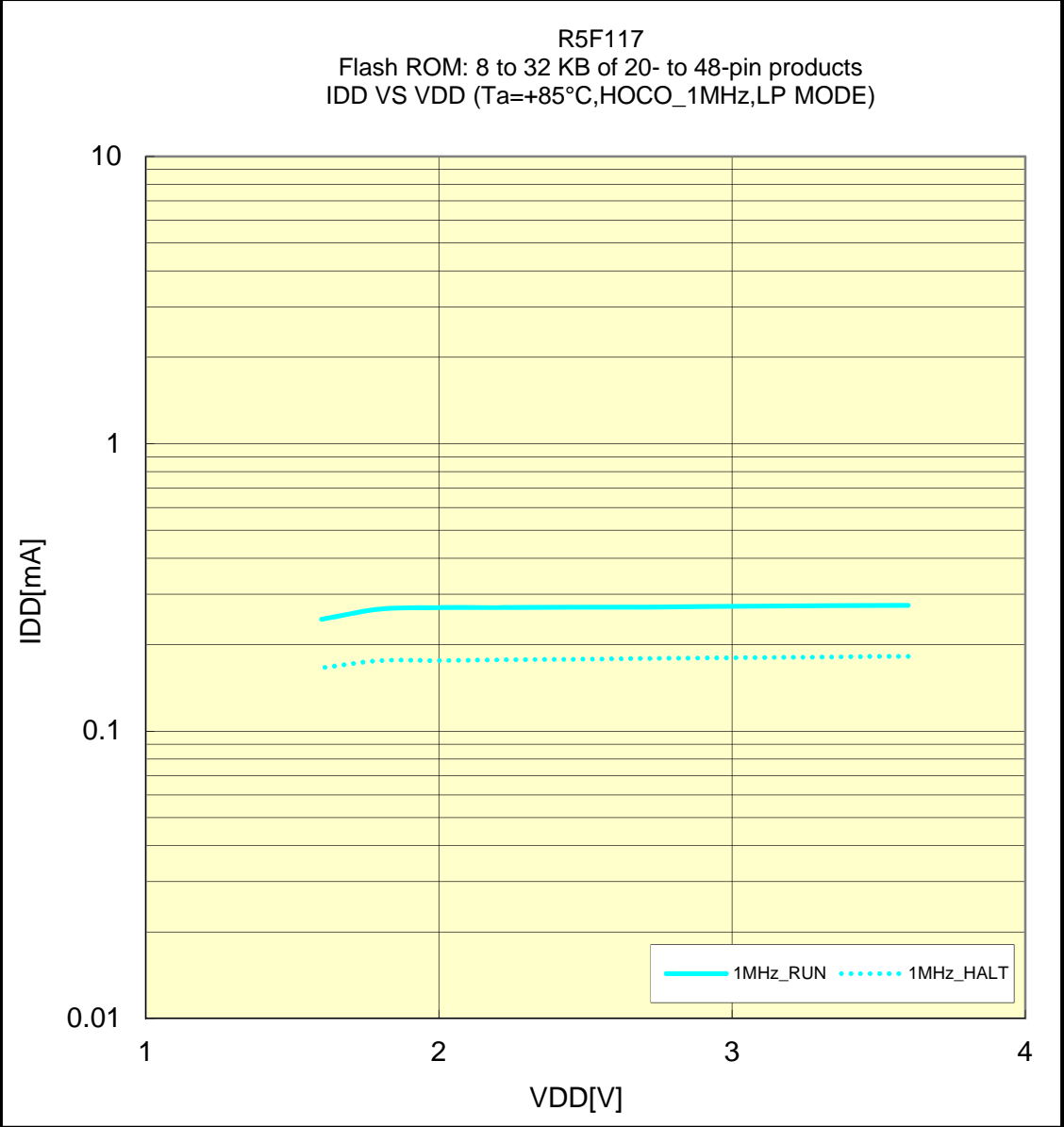IDD VS VDD (Ta=+85°C,HOCO_1MHz,LP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/MOCO_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,MOCO_1MHz,LP MODE)
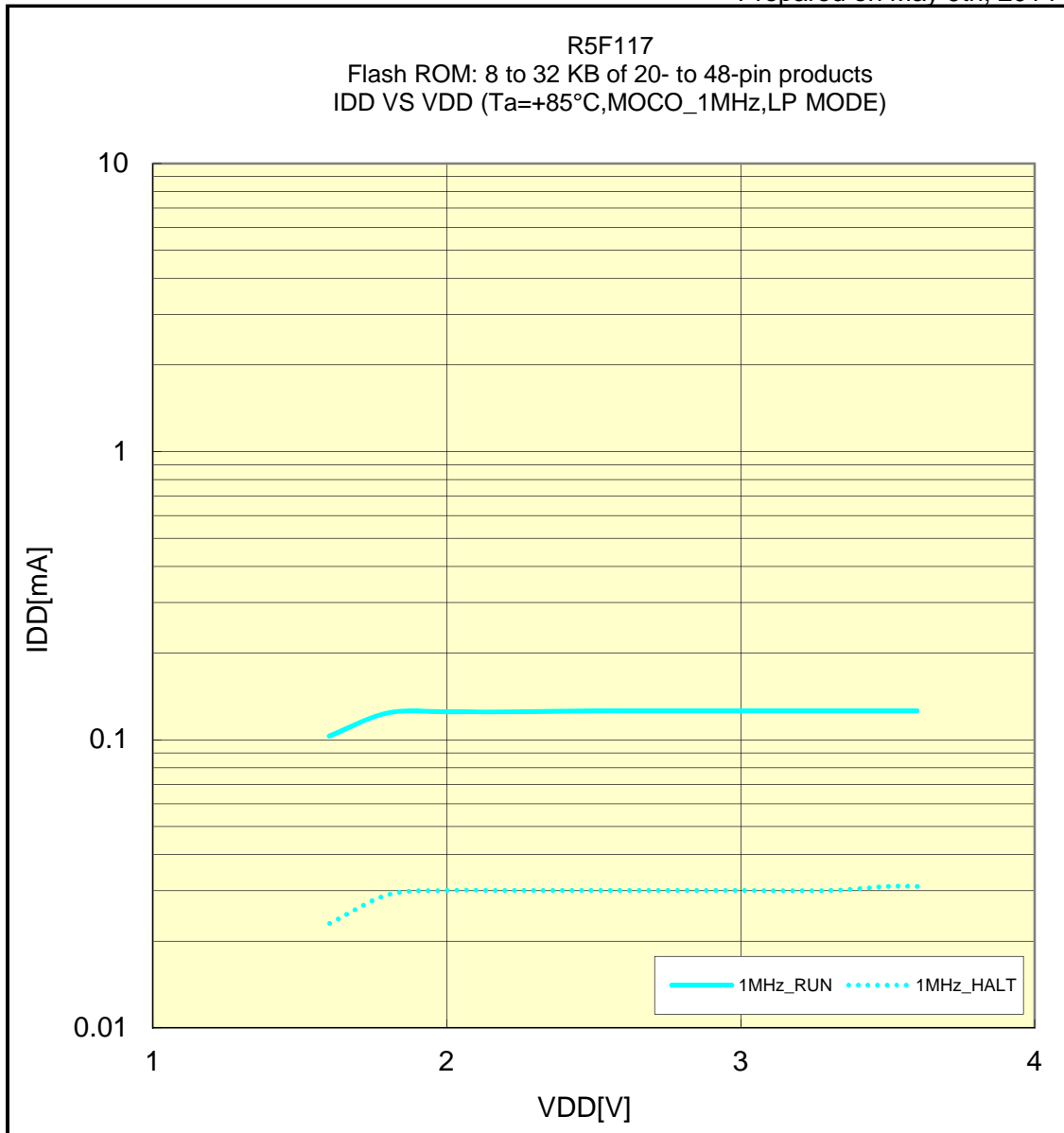

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/X'TAL_1MHz/LP MODE (MCSEL=1))

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
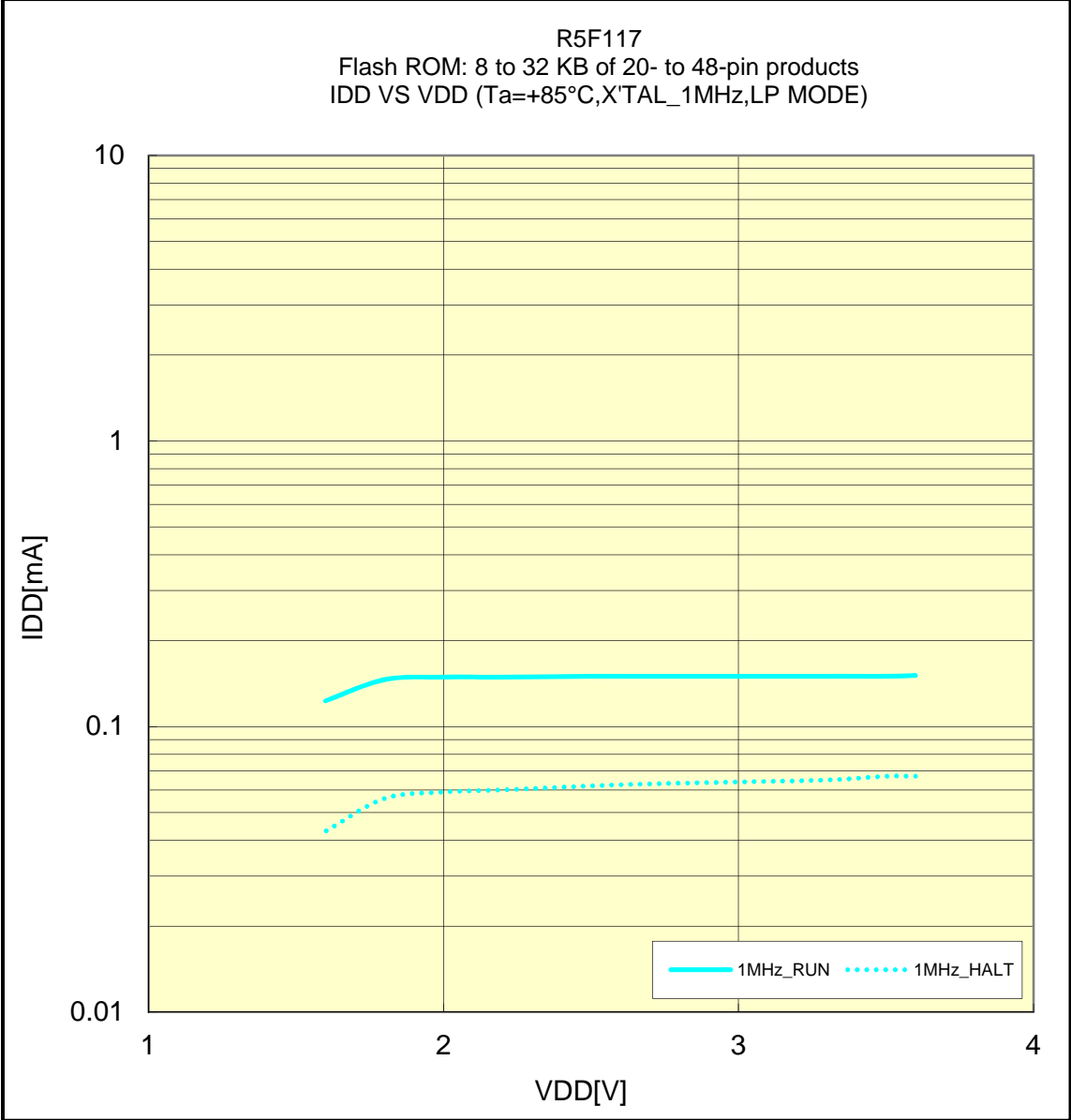IDD VS VDD (Ta=+85°C,X'TAL_1MHz,LP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+85°C/sub_clock/32.768KHz)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+85°C,sub_clock,32.768KHz)

Legend:
- RUN(Low power consumption oscillation)
- HALT(Low power consumption oscillation)
- RUN(Normal oscillation)
- HALT(Normal oscillation)
- RUN(Ultra-low power consumption oscillation)
- HALT(Ultra-low power consumption oscillation)
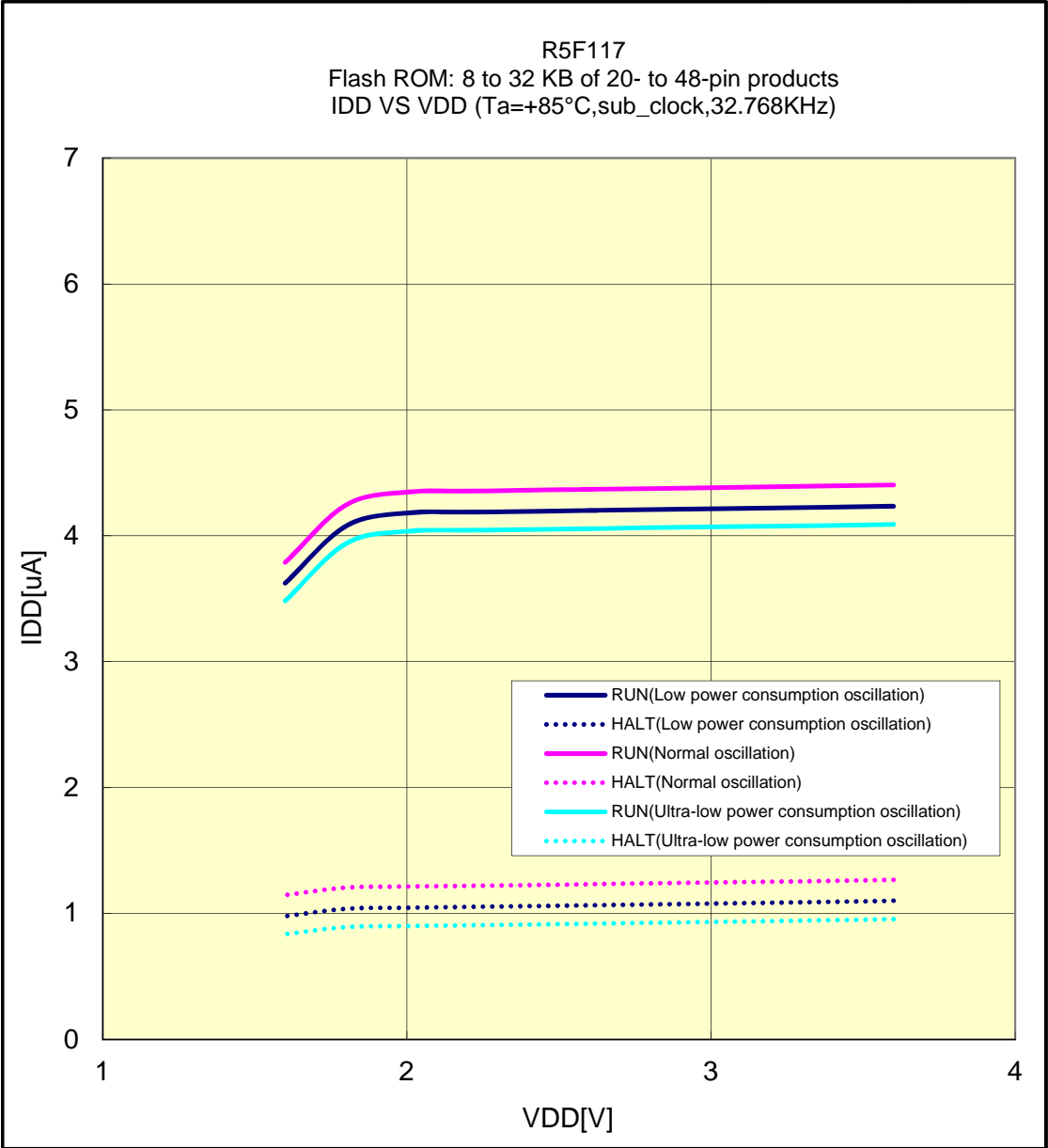
X-axis: VDD[V]
Y-axis: IDD[uA]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+105°C/HOCO_16/8/4/2/1MHz/HS MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
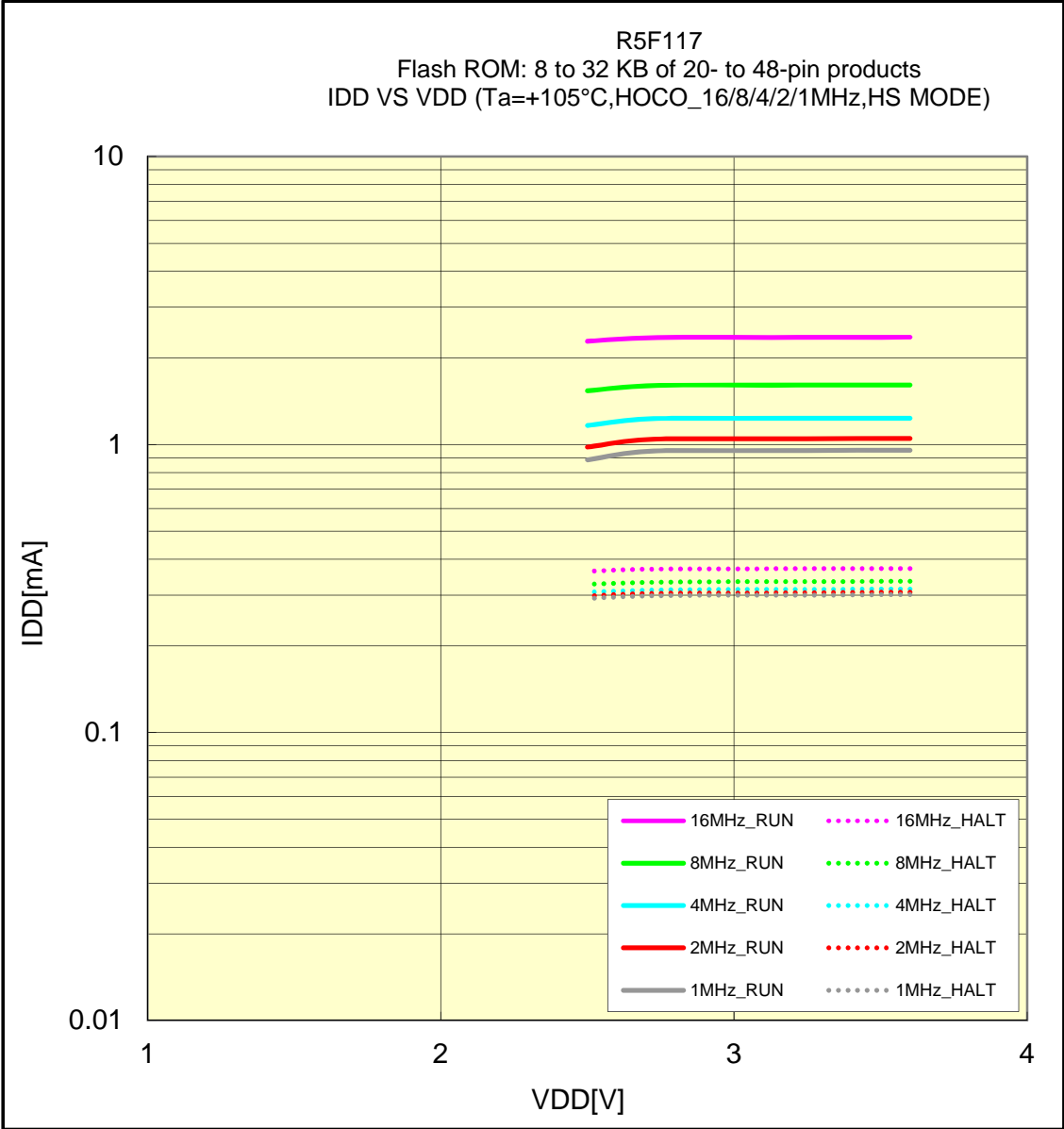IDD VS VDD (Ta=+105°C,HOCO_16/8/4/2/1MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+105°C/HOCO_24/12/6/3MHz/HS MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
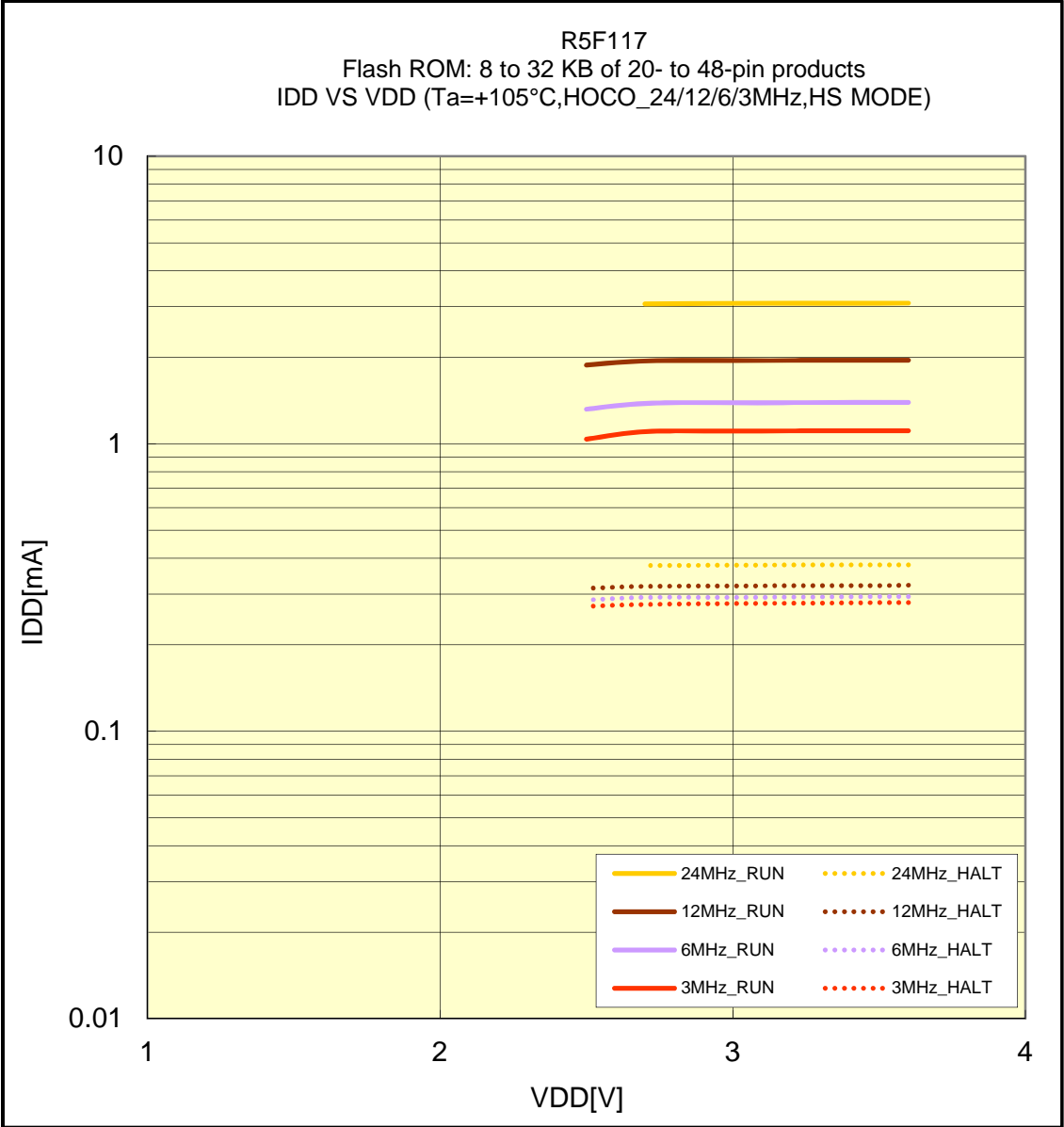IDD VS VDD (Ta=+105°C,HOCO_24/12/6/3MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+105°C/MOCO_4/2/1MHz/HS MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
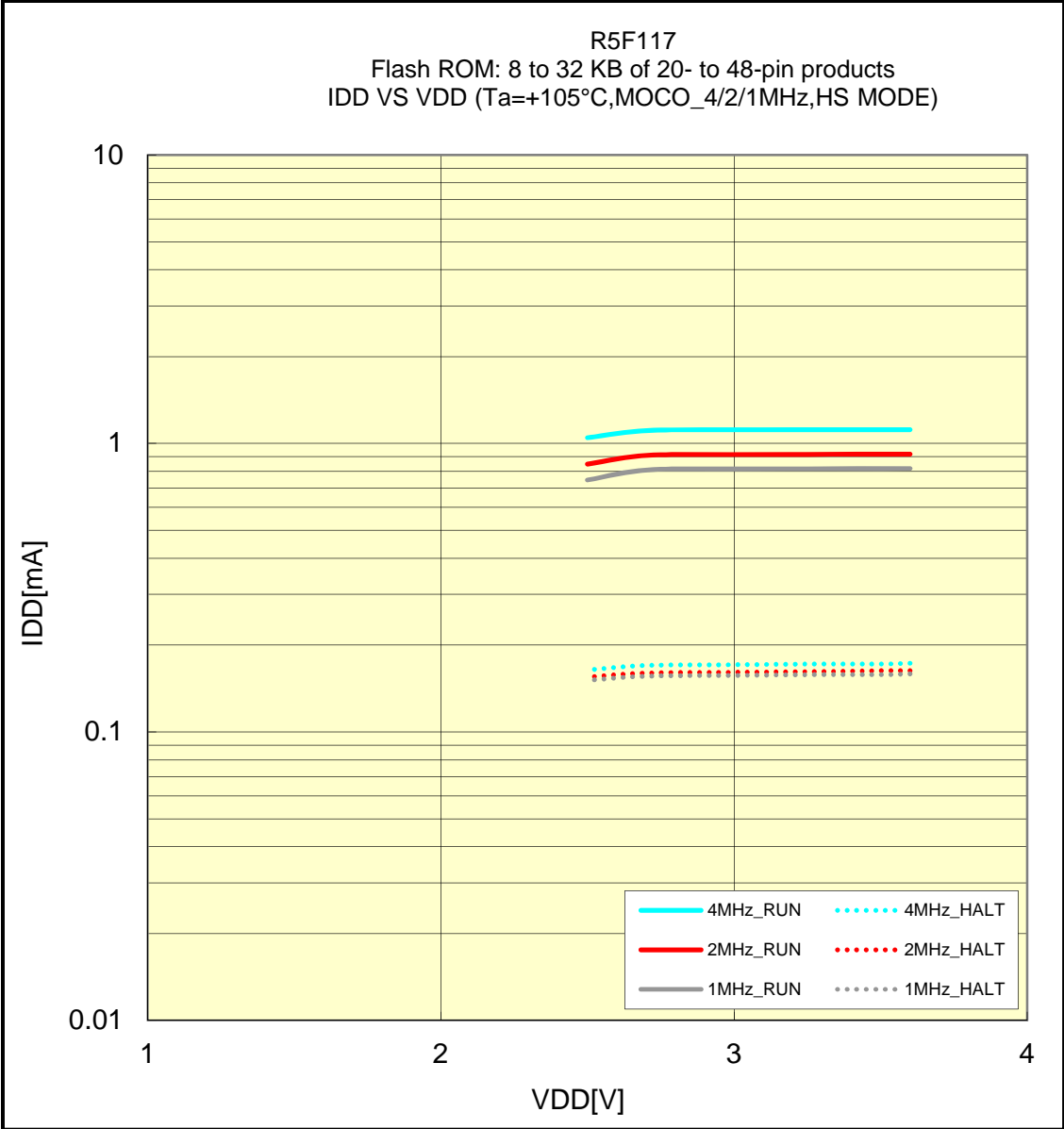IDD VS VDD (Ta=+105°C,MOCO_4/2/1MHz,HS MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+105°C/X'TAL/HS MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+105°C,X'TAL,HS MODE)

Legend:
- 20MHz_RUN ···· 20MHz_HALT
- 16MHz_RUN ···· 16MHz_HALT
- 12MHz_RUN ···· 12MHz_HALT
- 10MHz_RUN ···· 10MHz_HALT
- 8MHz_RUN ···· 8MHz_HALT
- 6MHz_RUN ···· 6MHz_HALT
- 5MHz_RUN ···· 5MHz_HALT
- 4MHz_RUN ···· 4MHz_HALT
- 2MHz_RUN ···· 2MHz_HALT
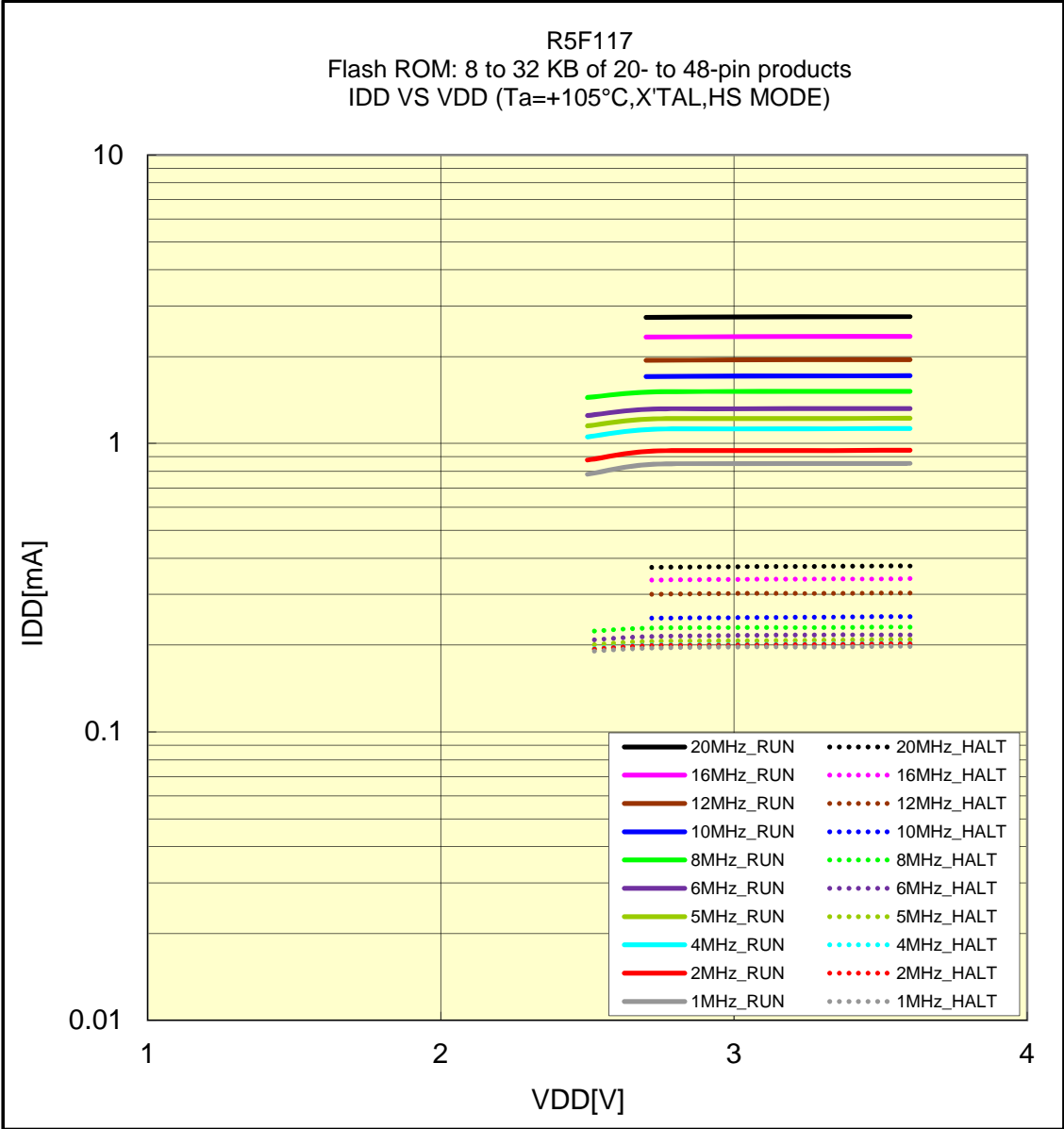- 1MHz_RUN ···· 1MHz_HALT
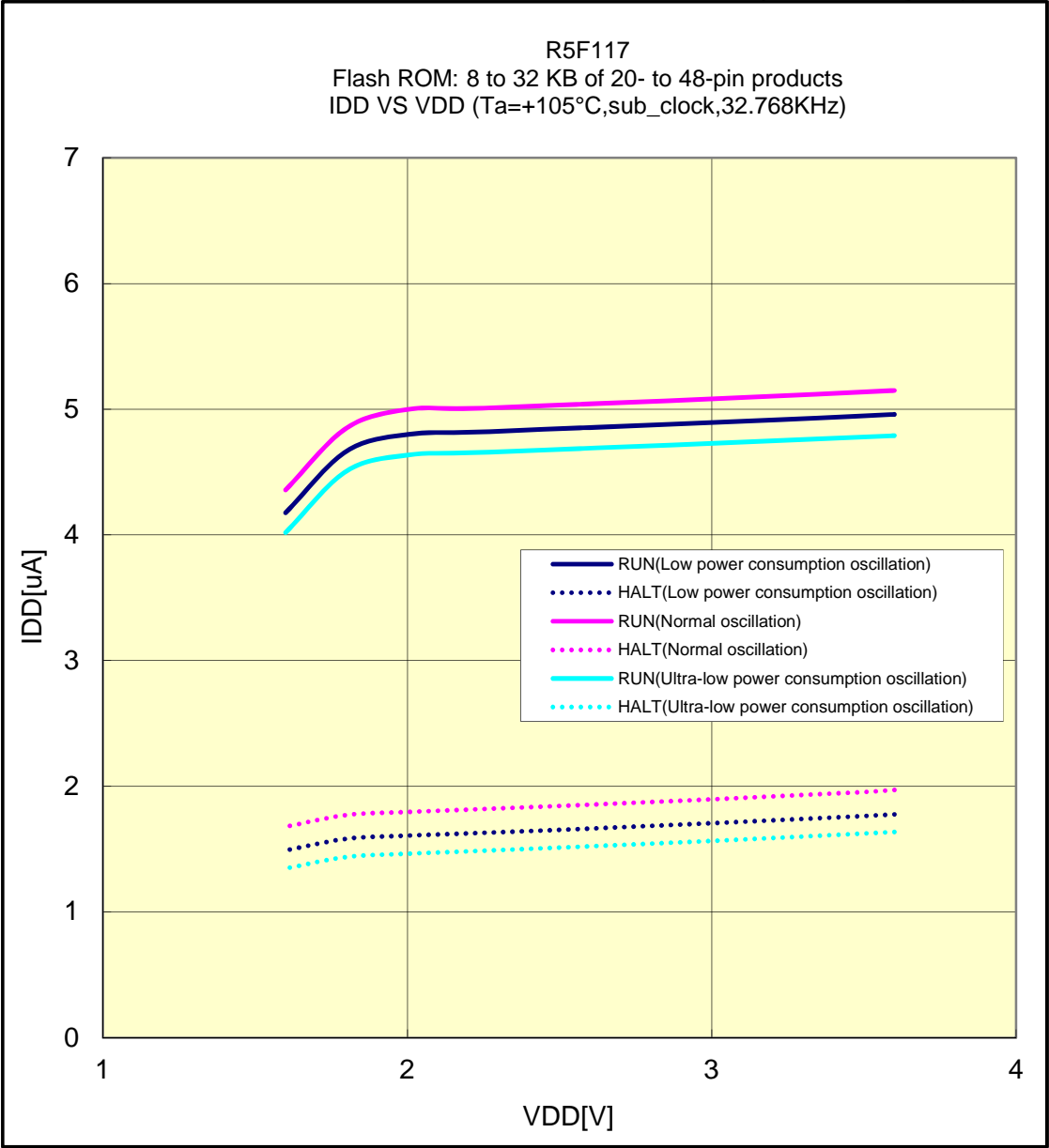
IDD[mA] vs VDD[V]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(+105°C/sub_clock/32.768KHz)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (Ta=+105°C,sub_clock,32.768KHz)

Legend:
- RUN(Low power consumption oscillation)
- HALT(Low power consumption oscillation)
- RUN(Normal oscillation)
- HALT(Normal oscillation)
- RUN(Ultra-low power consumption oscillation)
- HALT(Ultra-low power consumption oscillation)
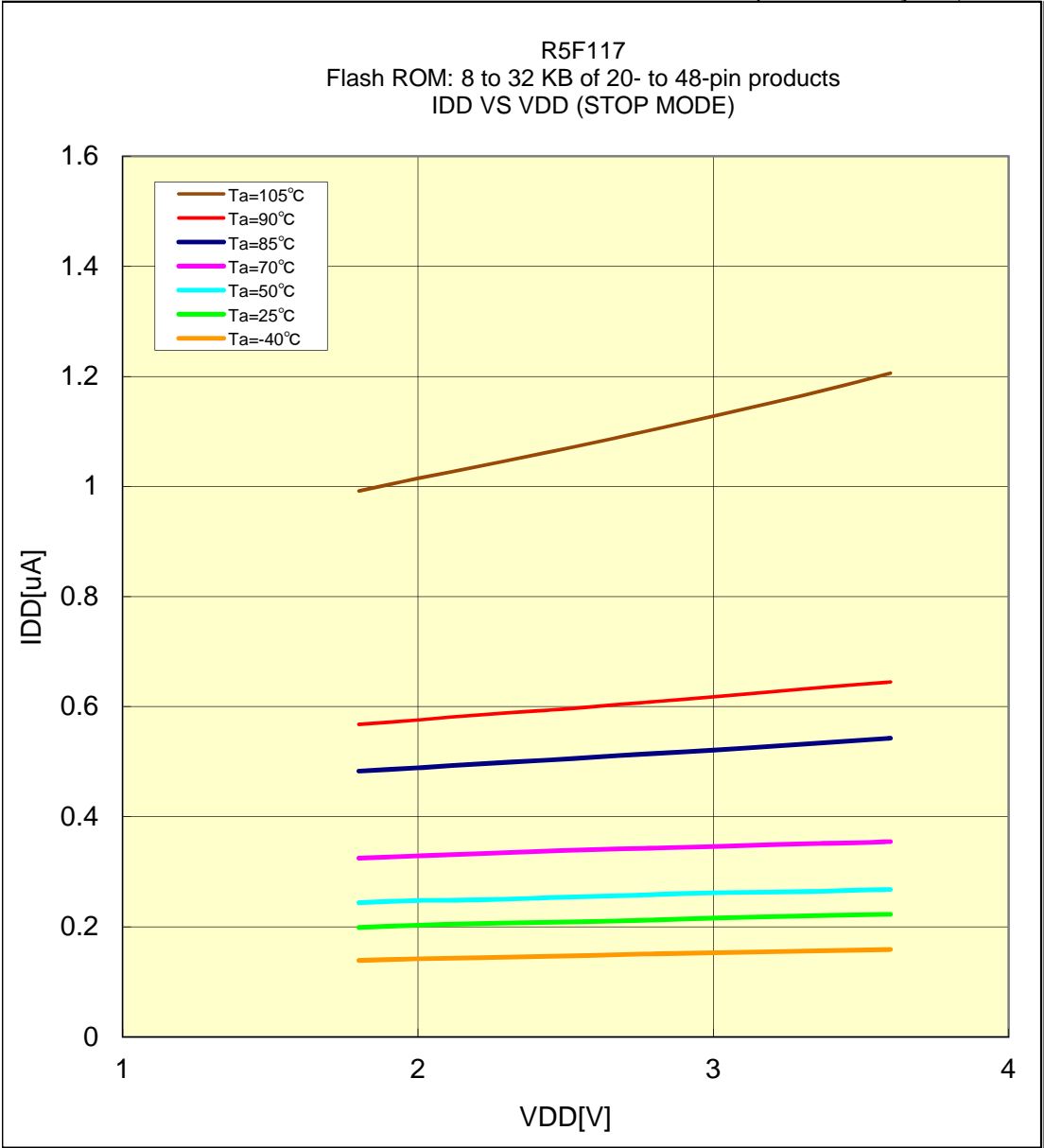
Y-axis: IDD[uA]
X-axis: VDD[V]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS VDD
(STOP MODE)

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS VDD (STOP MODE)

Legend:
- Ta=105℃
- Ta=90℃
- Ta=85℃
- Ta=70℃
- Ta=50℃
- Ta=25℃
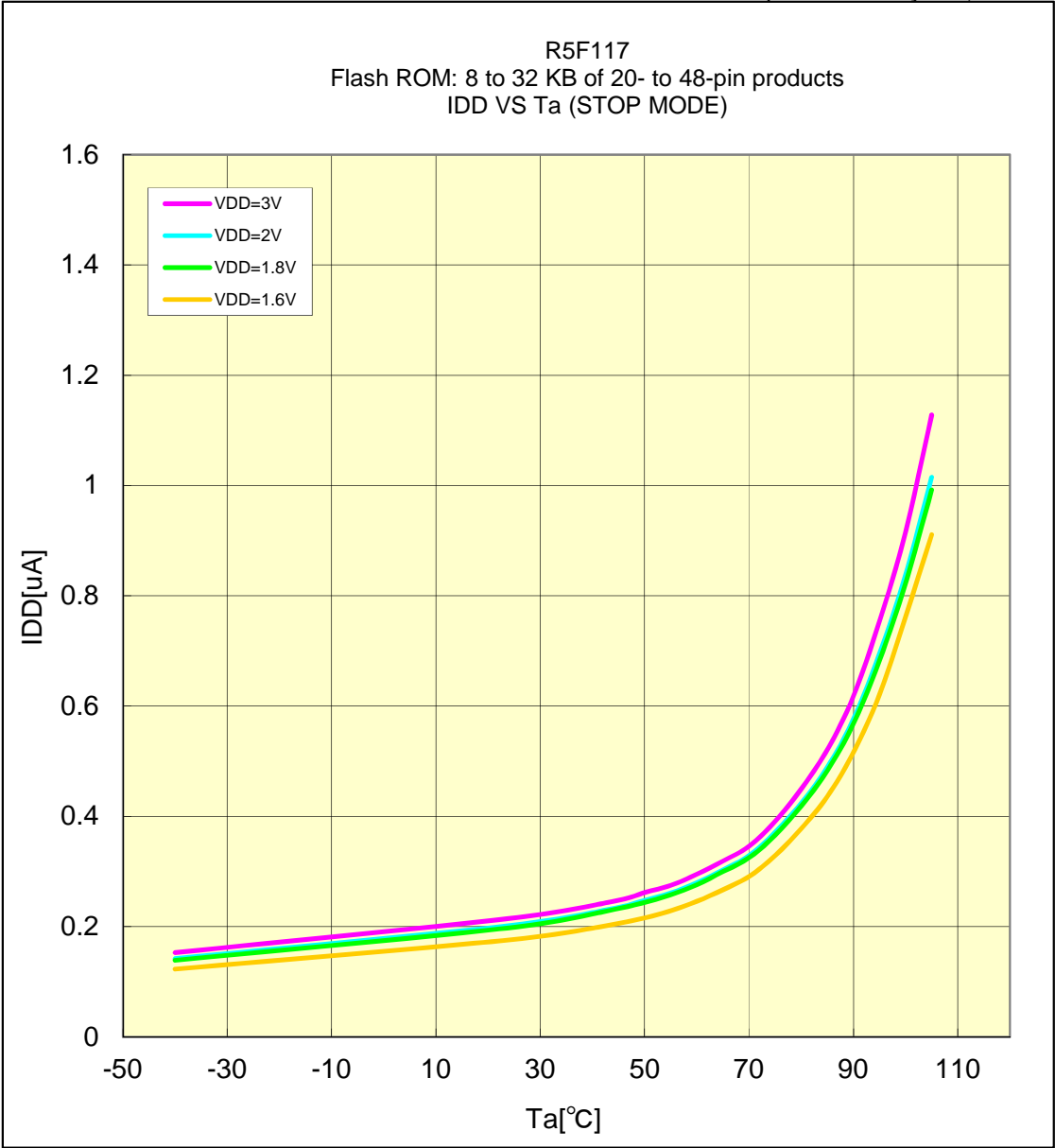- Ta=-40℃

Y-axis: IDD[uA], X-axis: VDD[V]

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products

IDD VS Ta
(STOP MODE)

Prepared on May 9th, 2014

R5F117
Flash ROM: 8 to 32 KB of 20- to 48-pin products
IDD VS Ta (STOP MODE)

The above mentioned value is only for your reference. The value was measured under certain conditions and does not guarantee the product's characteristics.