R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(-40°C/HOCO_48/24/12/6/3MHz/HS MODE)
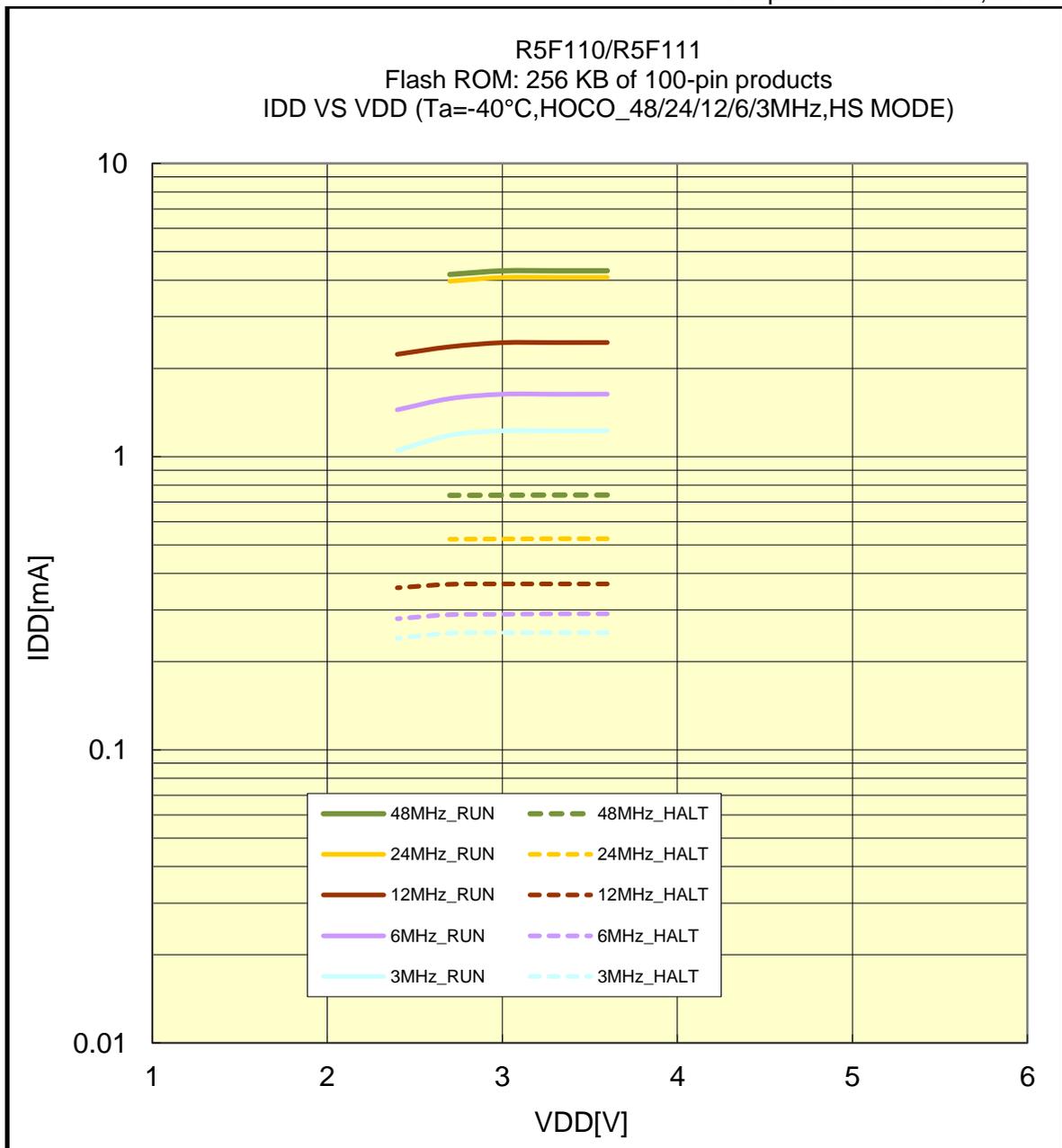
R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=-40°C,HOCO_48/24/12/6/3MHz,HS MODE)

Legend:
- 48MHz_RUN
- 48MHz_HALT
- 24MHz_RUN
- 24MHz_HALT
- 12MHz_RUN
- 12MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
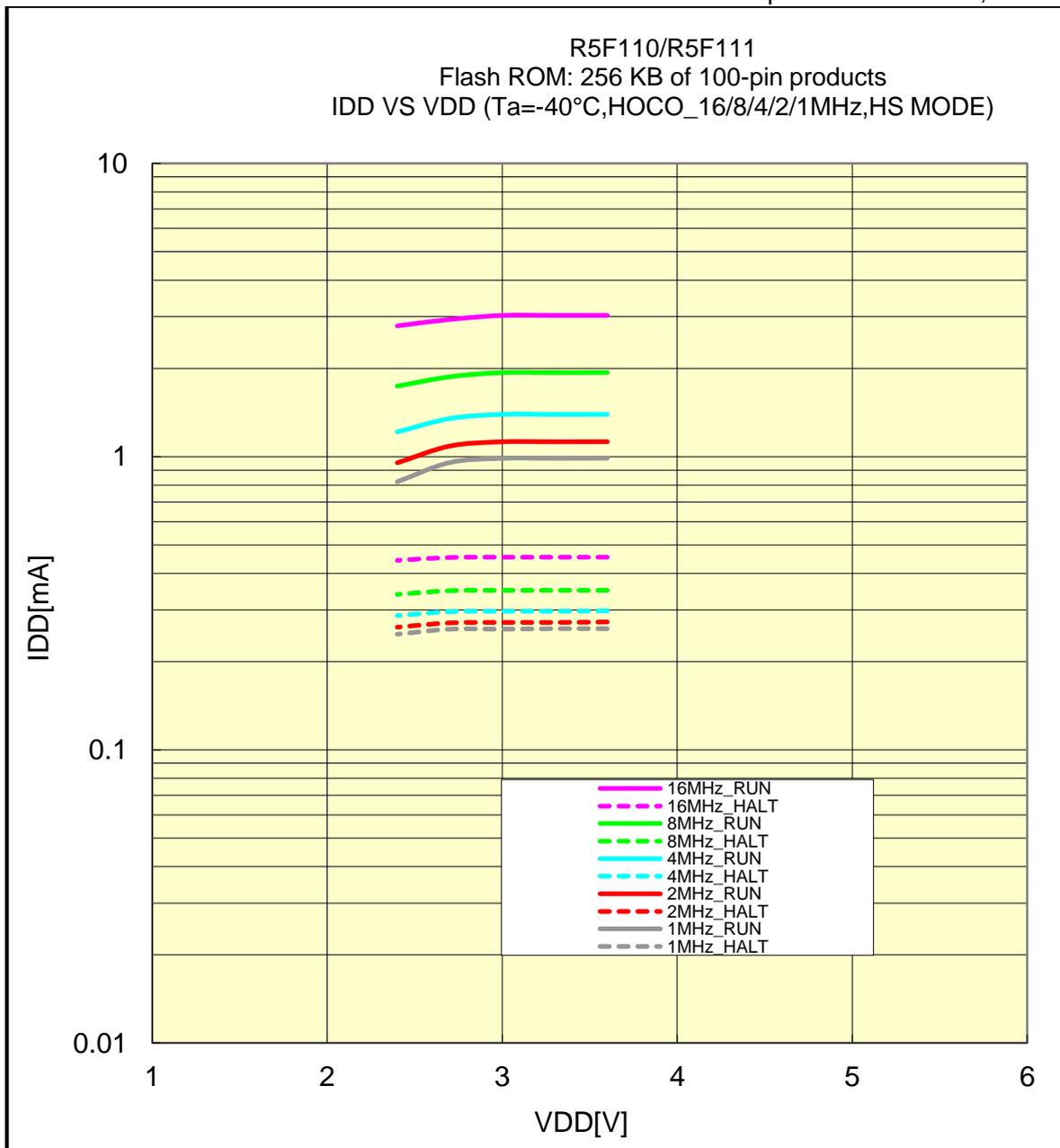- 3MHz_RUN
- 3MHz_HALT

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.

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(-40°C/HOCO_16/8/4/2/1MHz/HS MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=-40°C,HOCO_16/8/4/2/1MHz,HS MODE)

Legend:
- 16MHz_RUN
- 16MHz_HALT
- 8MHz_RUN
- 8MHz_HALT
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
- 1MHz_RUN
- 1MHz_HALT

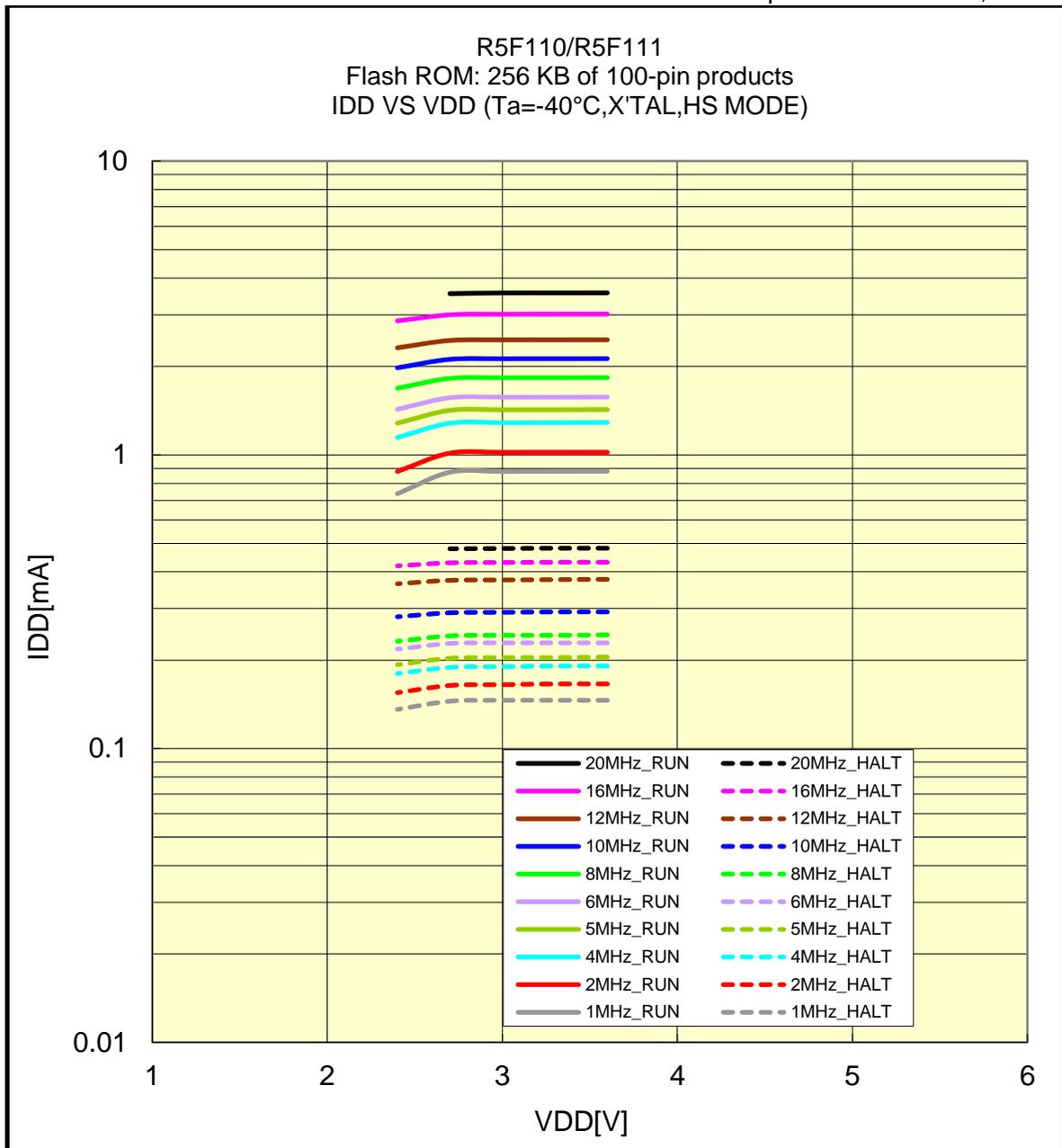Y-axis: IDD[mA]
X-axis: VDD[V]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(-40°C/X'TAL/HS MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=-40°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
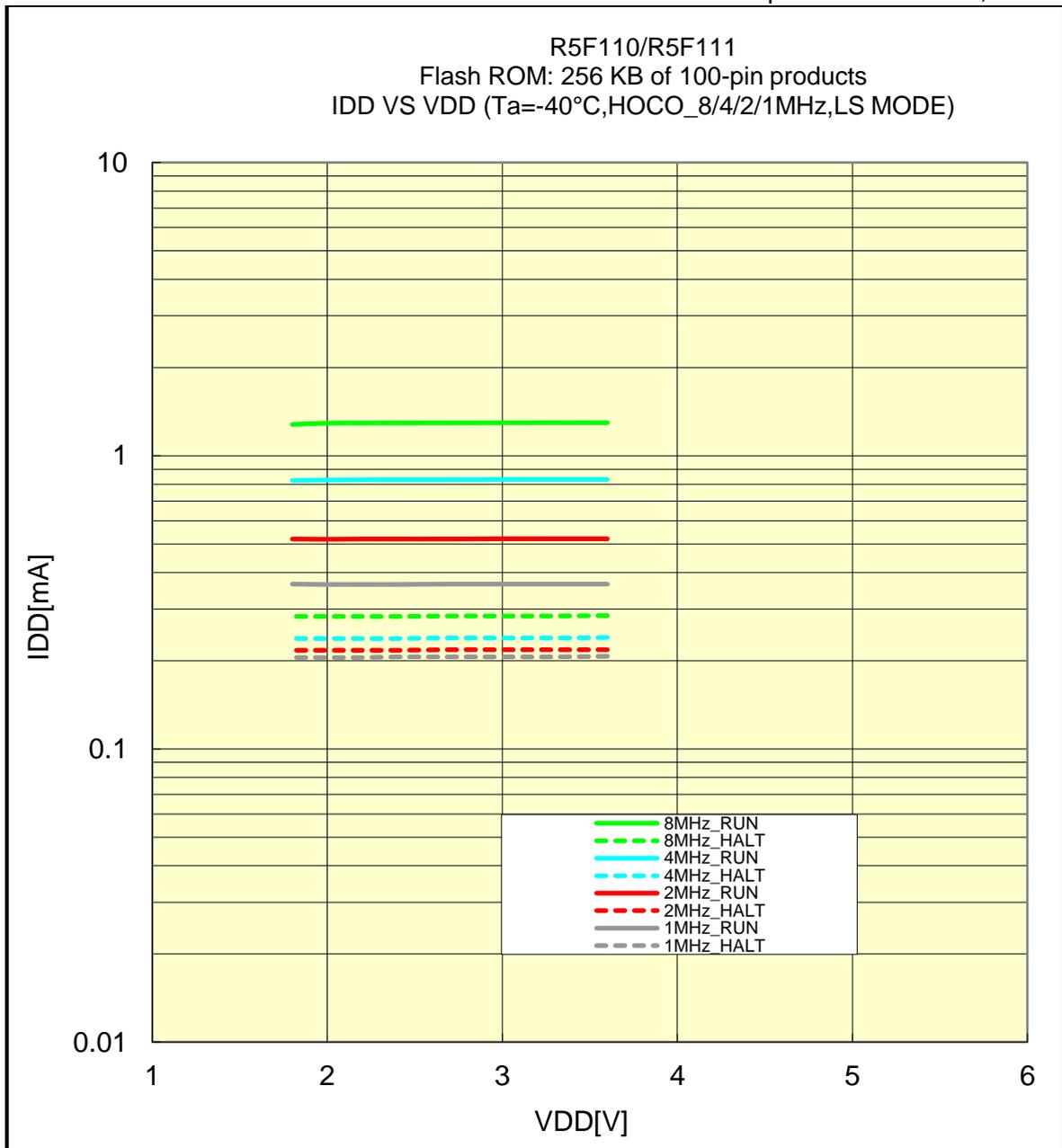- 1MHz_RUN — 1MHz_HALT

Axes: 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.

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
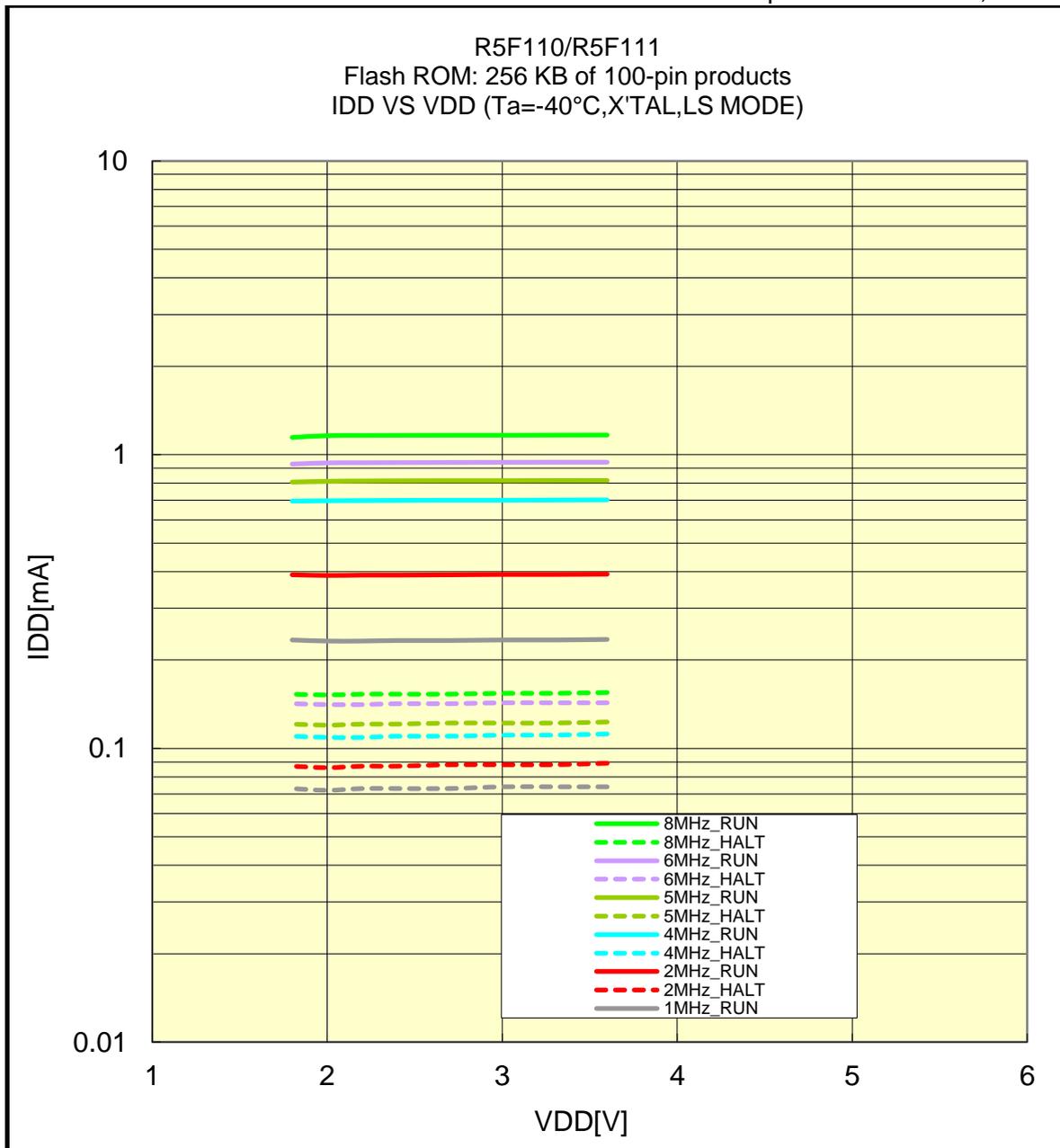IDD VS VDD (Ta=-40°C,HOCO_8/4/2/1MHz,LS MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(-40°C/X'TAL/LS MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=-40°C,X'TAL,LS MODE)

Legend:
- 8MHz_RUN
- 8MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
- 5MHz_RUN
- 5MHz_HALT
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
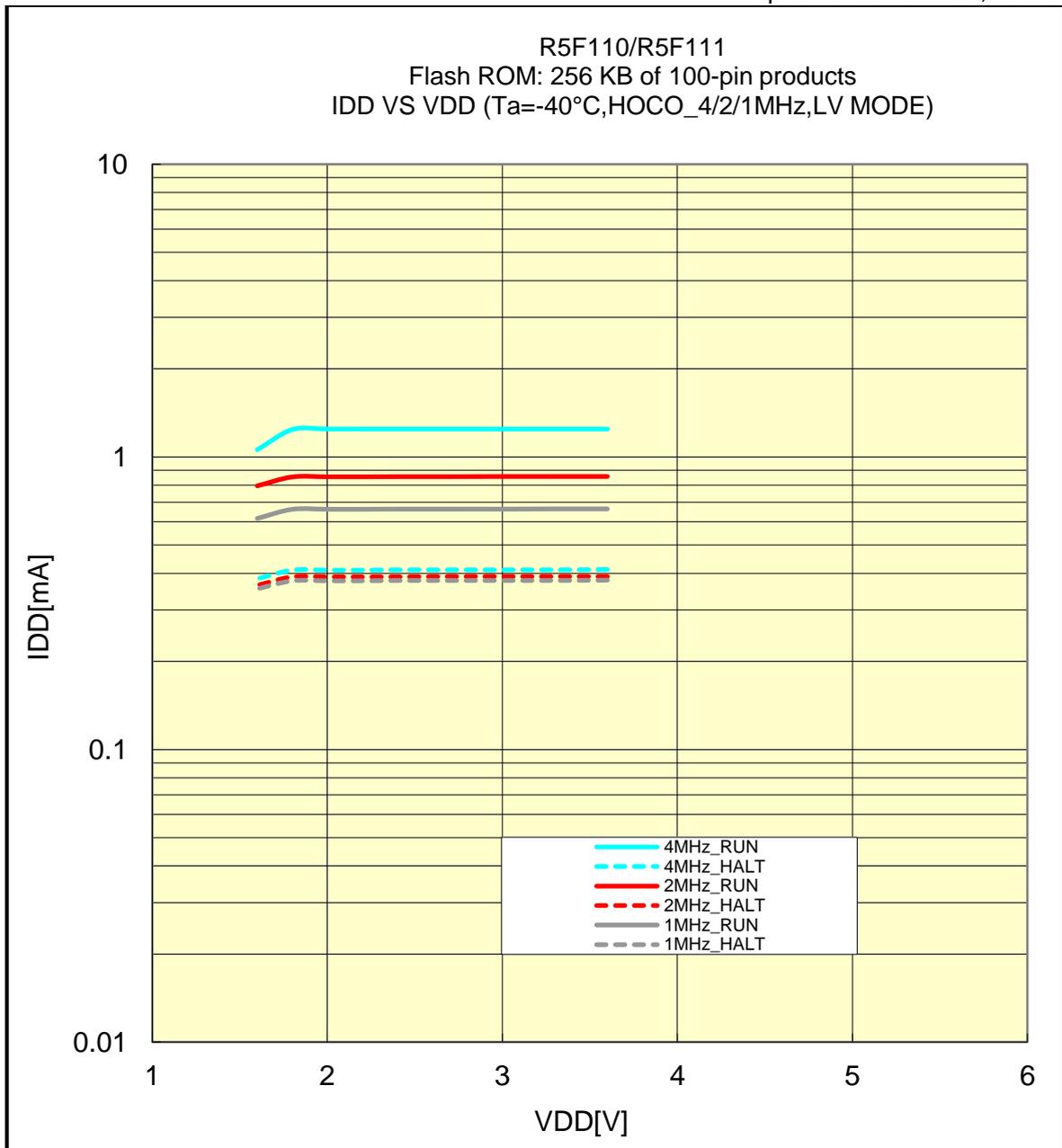- 1MHz_RUN

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.

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
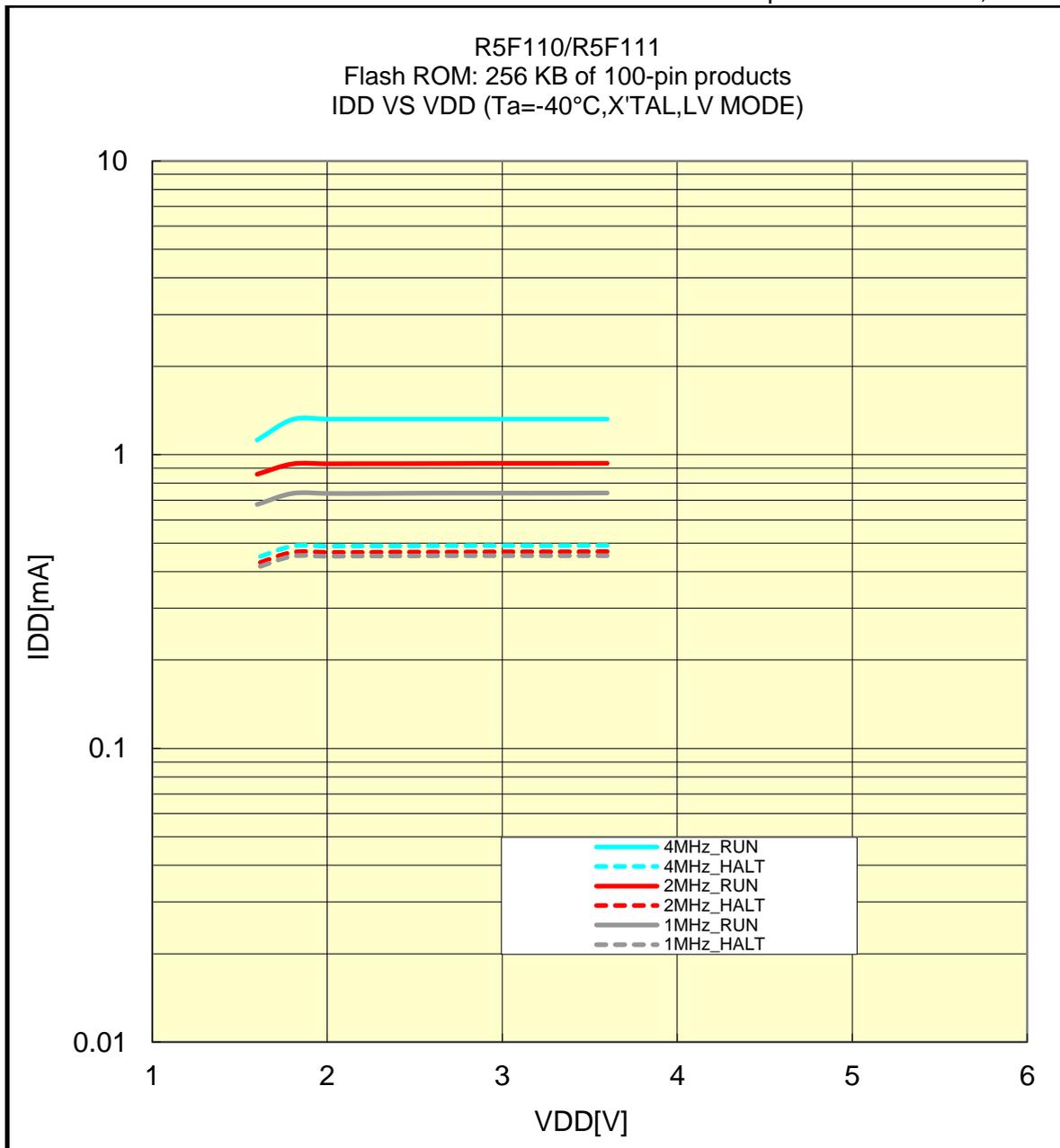IDD VS VDD (Ta=-40°C,HOCO_4/2/1MHz,LV MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(-40°C/X'TAL/LV MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=-40°C,X'TAL,LV MODE)

Legend:
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
- 1MHz_RUN
- 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.
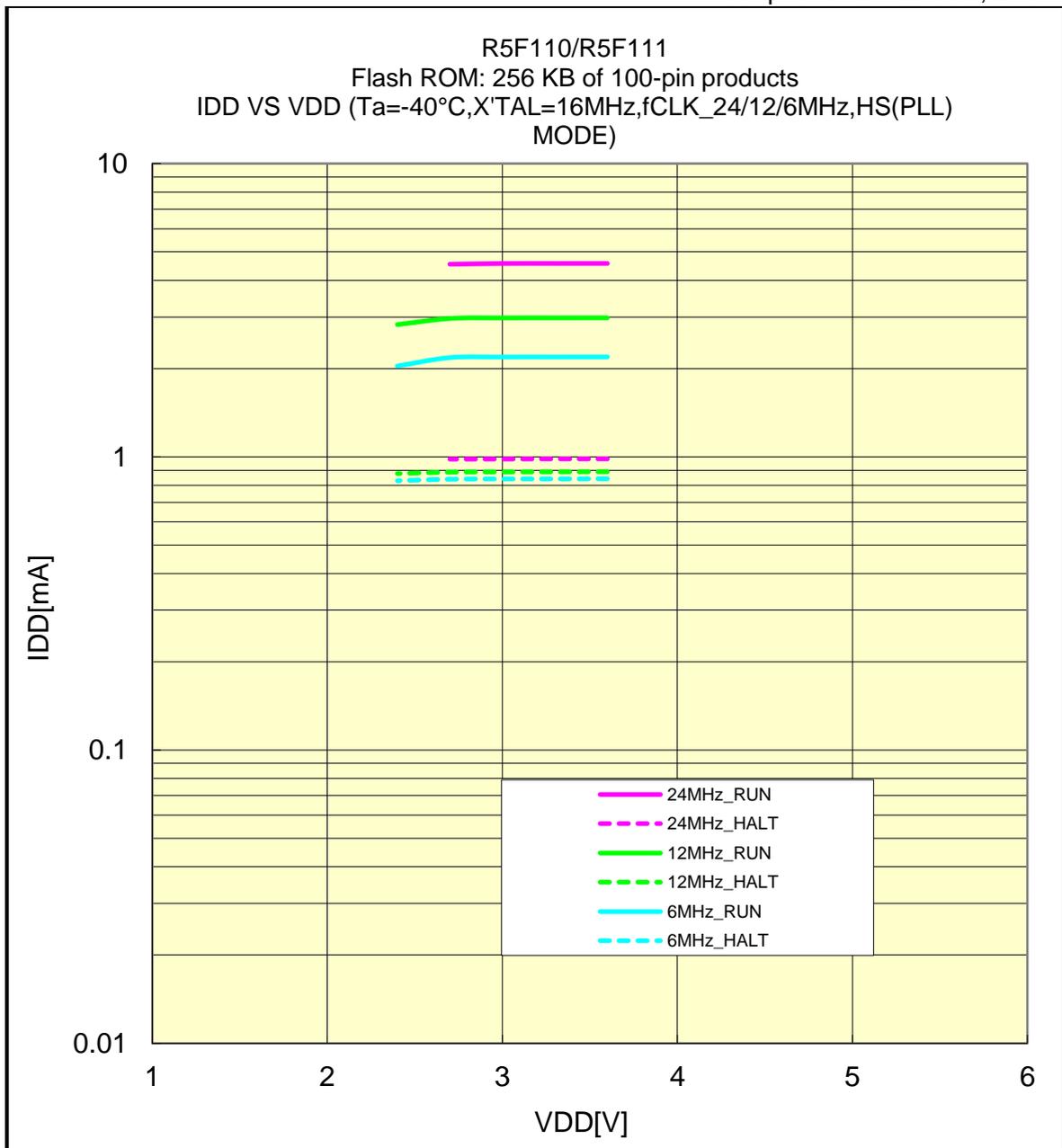
R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD
(-40°C/X'TAL=16MHz,fCLK_24/12/6MHz/HS(PLL) MODE

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
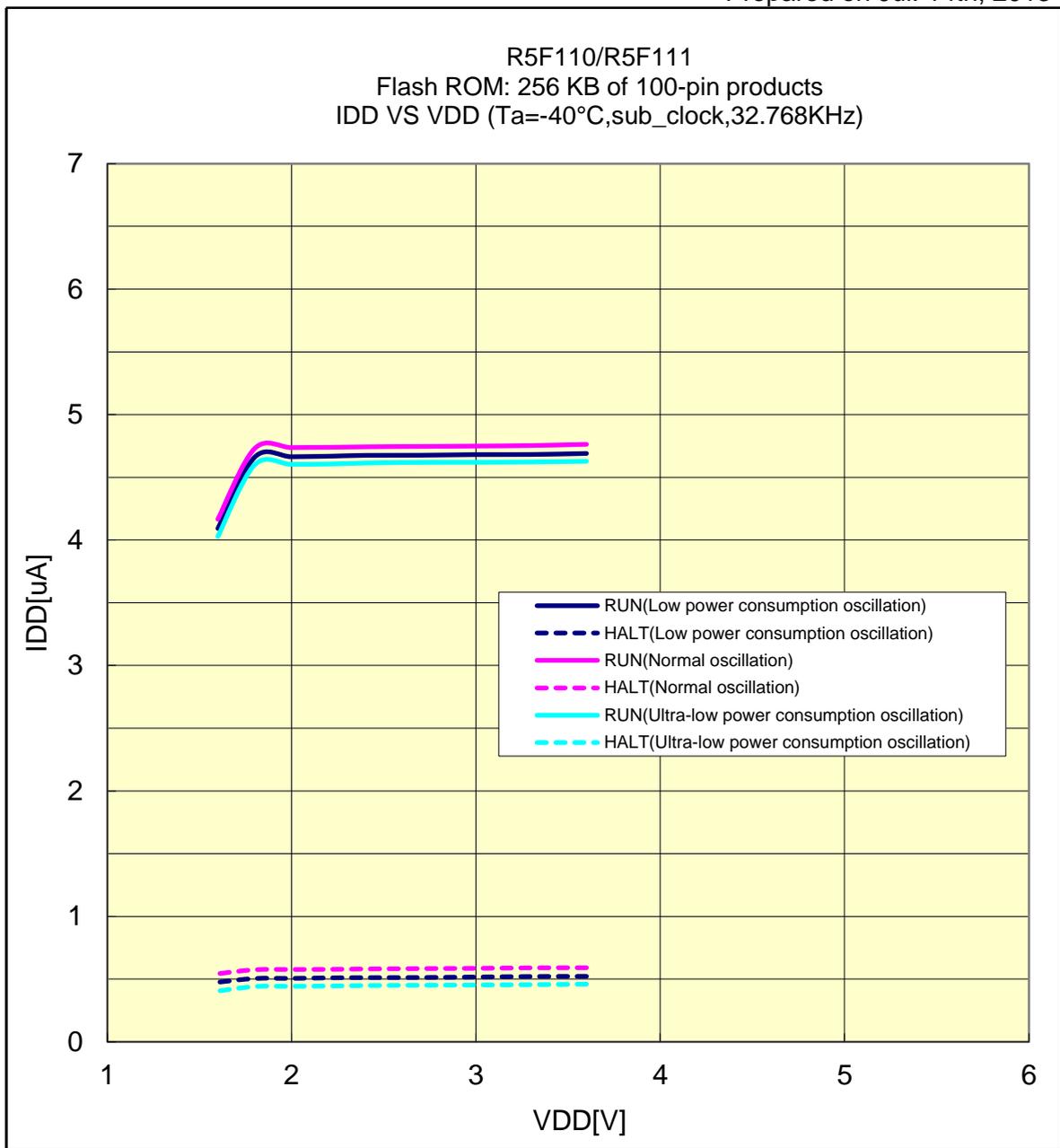IDD VS VDD (Ta=-40°C,X'TAL=16MHz,fCLK_24/12/6MHz,HS(PLL) MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(-40°C/sub_clock/32.768KHz)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-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)
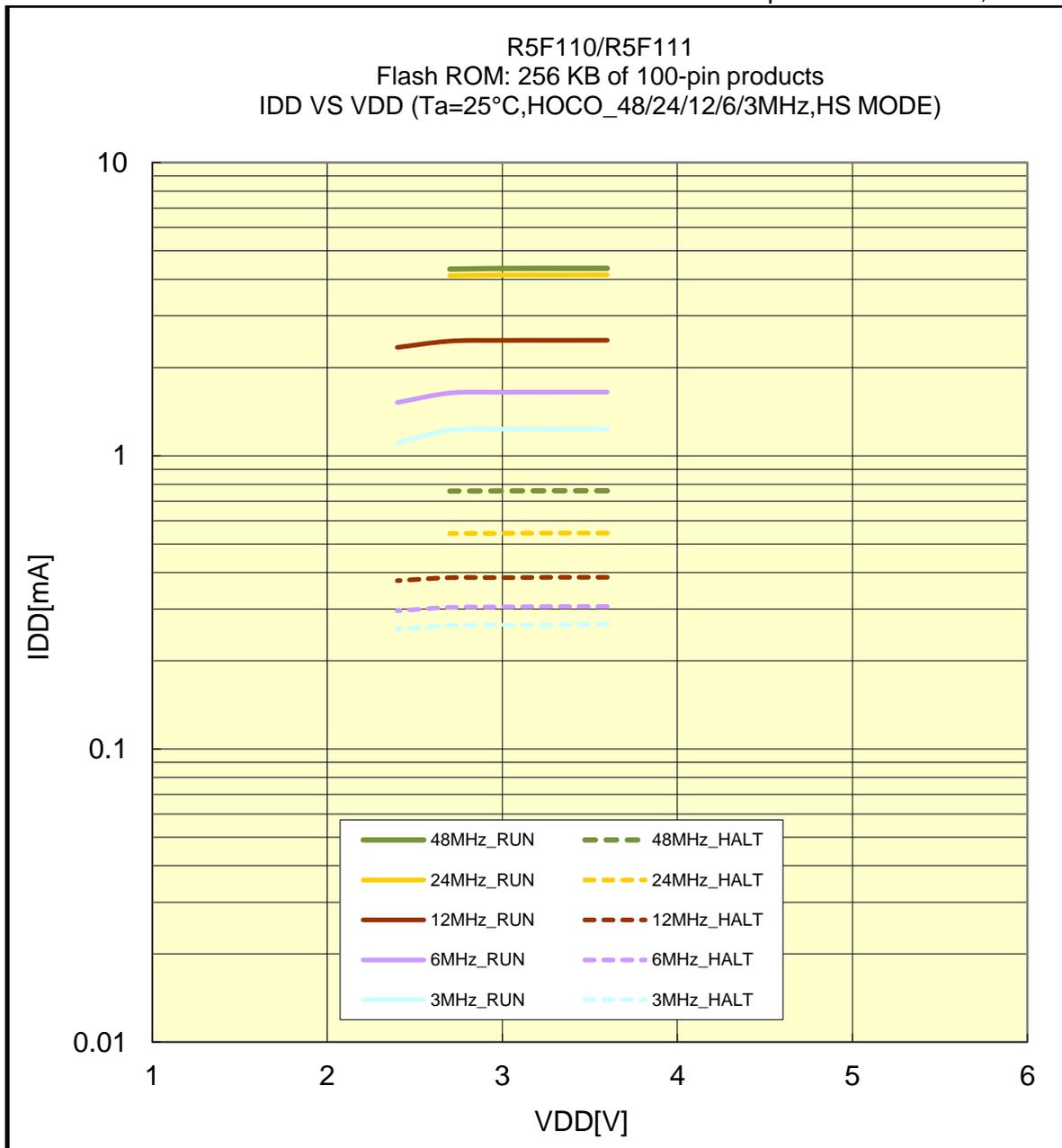
X-axis: VDD[V]
Y-axis: IDD[uA]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(25°C/HOCO_48/24/12/6/3MHz/HS MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°C,HOCO_48/24/12/6/3MHz,HS MODE)

Legend:
- 48MHz_RUN
- 48MHz_HALT
- 24MHz_RUN
- 24MHz_HALT
- 12MHz_RUN
- 12MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
- 3MHz_RUN
- 3MHz_HALT
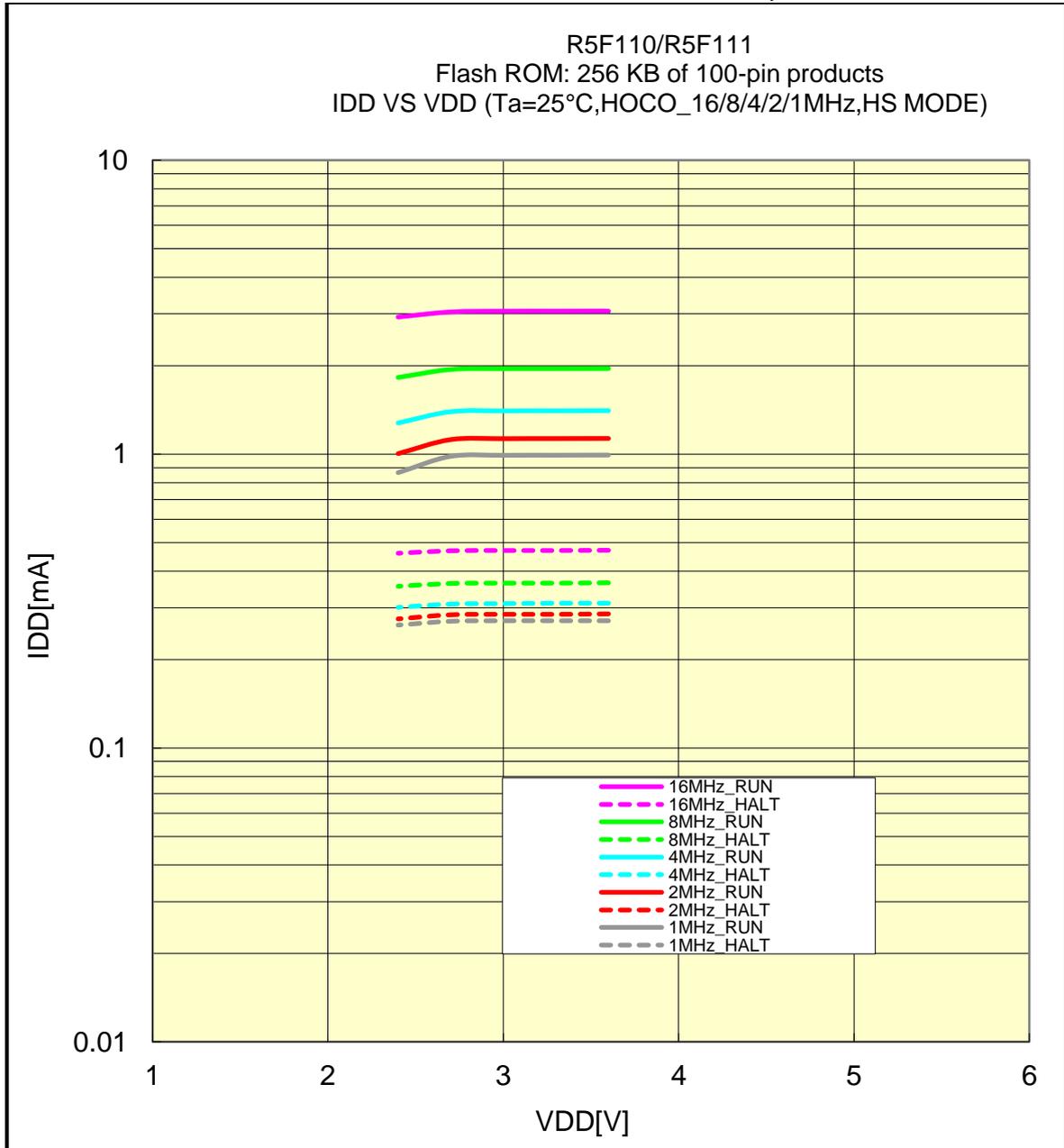
Y-axis: IDD[mA]
X-axis: VDD[V]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°C,HOCO_16/8/4/2/1MHz,HS MODE)

Legend:
- 16MHz_RUN
- 16MHz_HALT
- 8MHz_RUN
- 8MHz_HALT
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
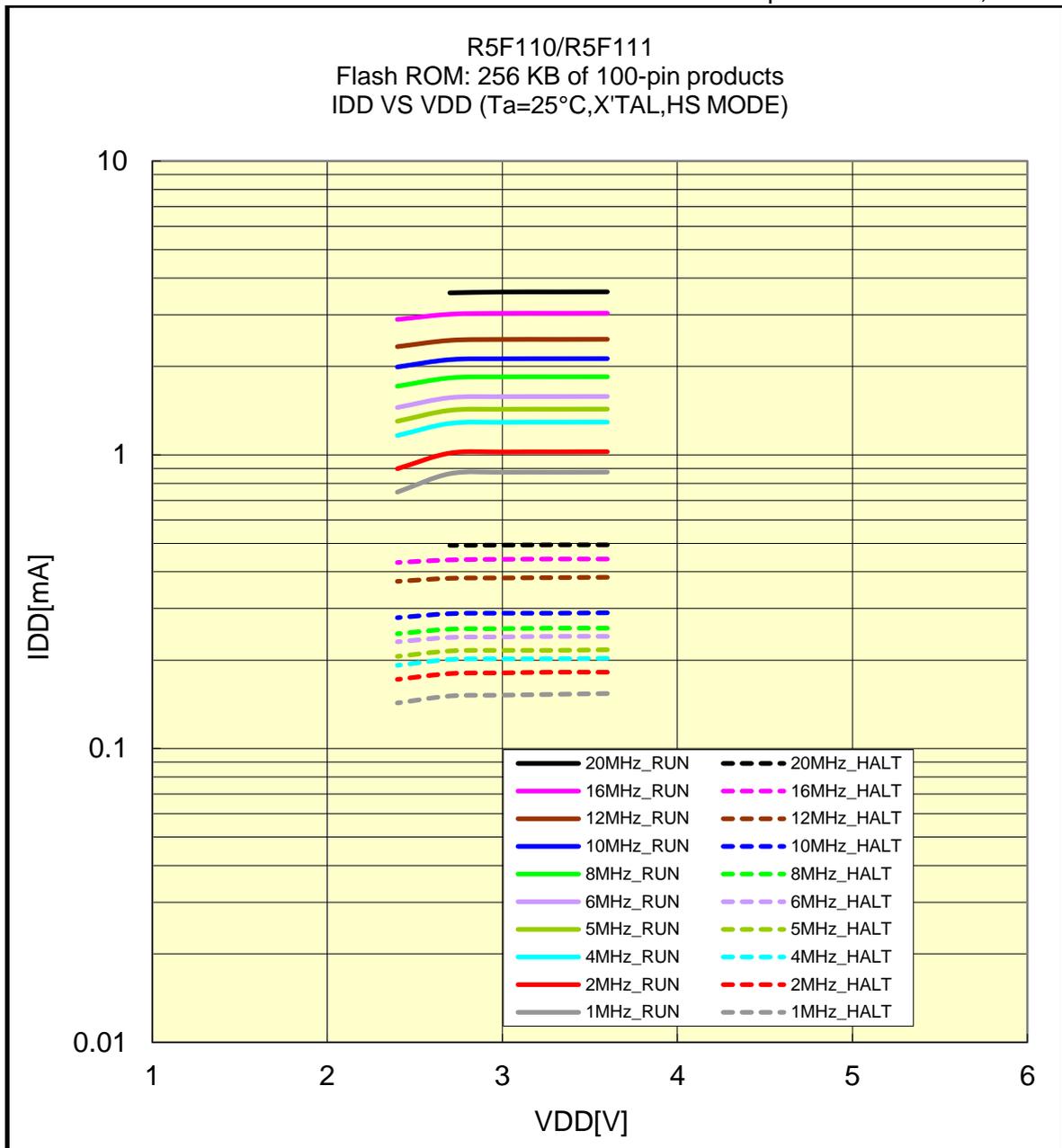- 1MHz_RUN
- 1MHz_HALT

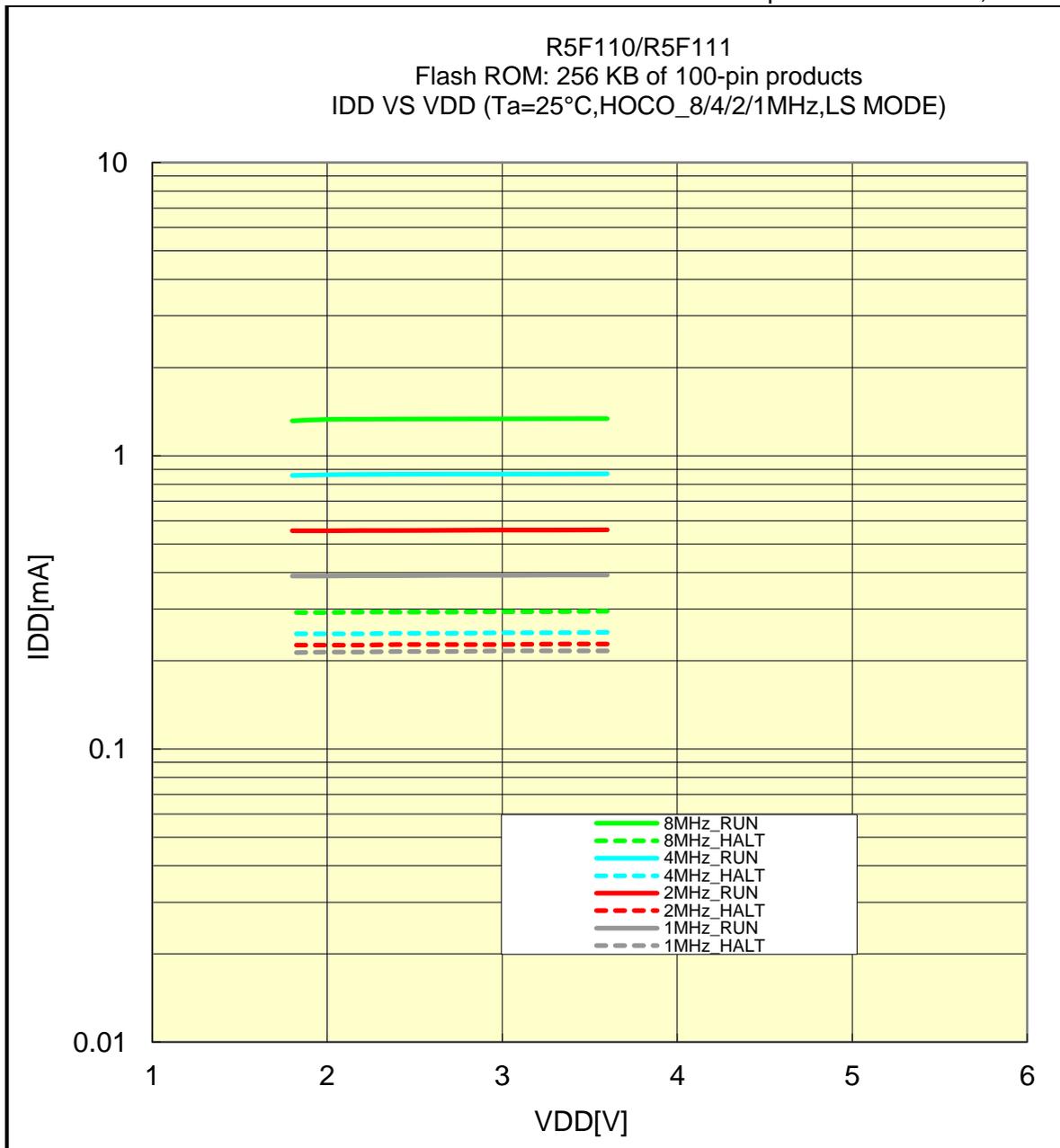X-axis: VDD[V]
Y-axis: IDD[mA]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(25°C/X'TAL/HS MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°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
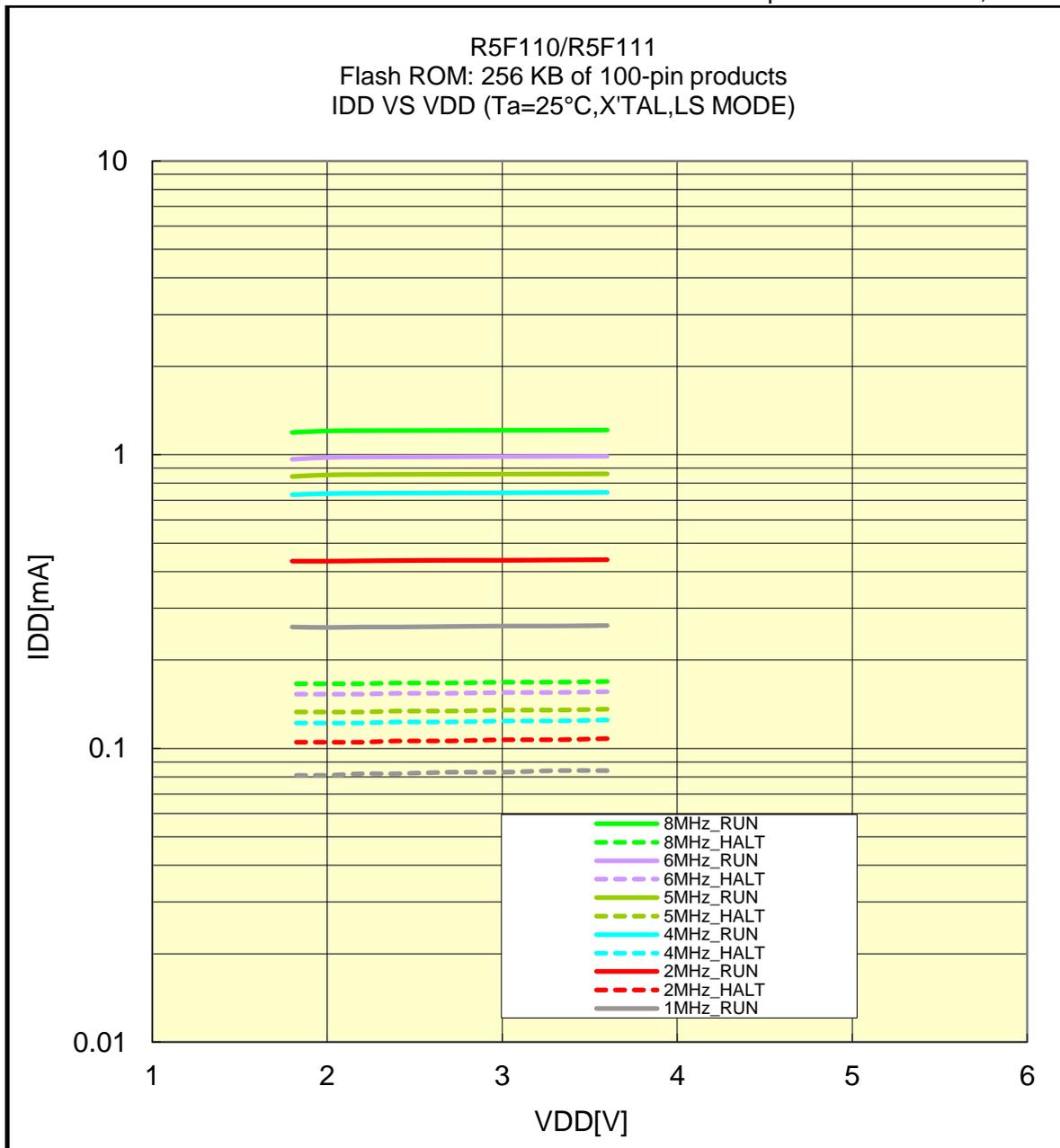
X-axis: VDD[V], Y-axis: IDD[mA]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°C,HOCO_8/4/2/1MHz,LS MODE)

Legend:
- 8MHz_RUN
- 8MHz_HALT
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
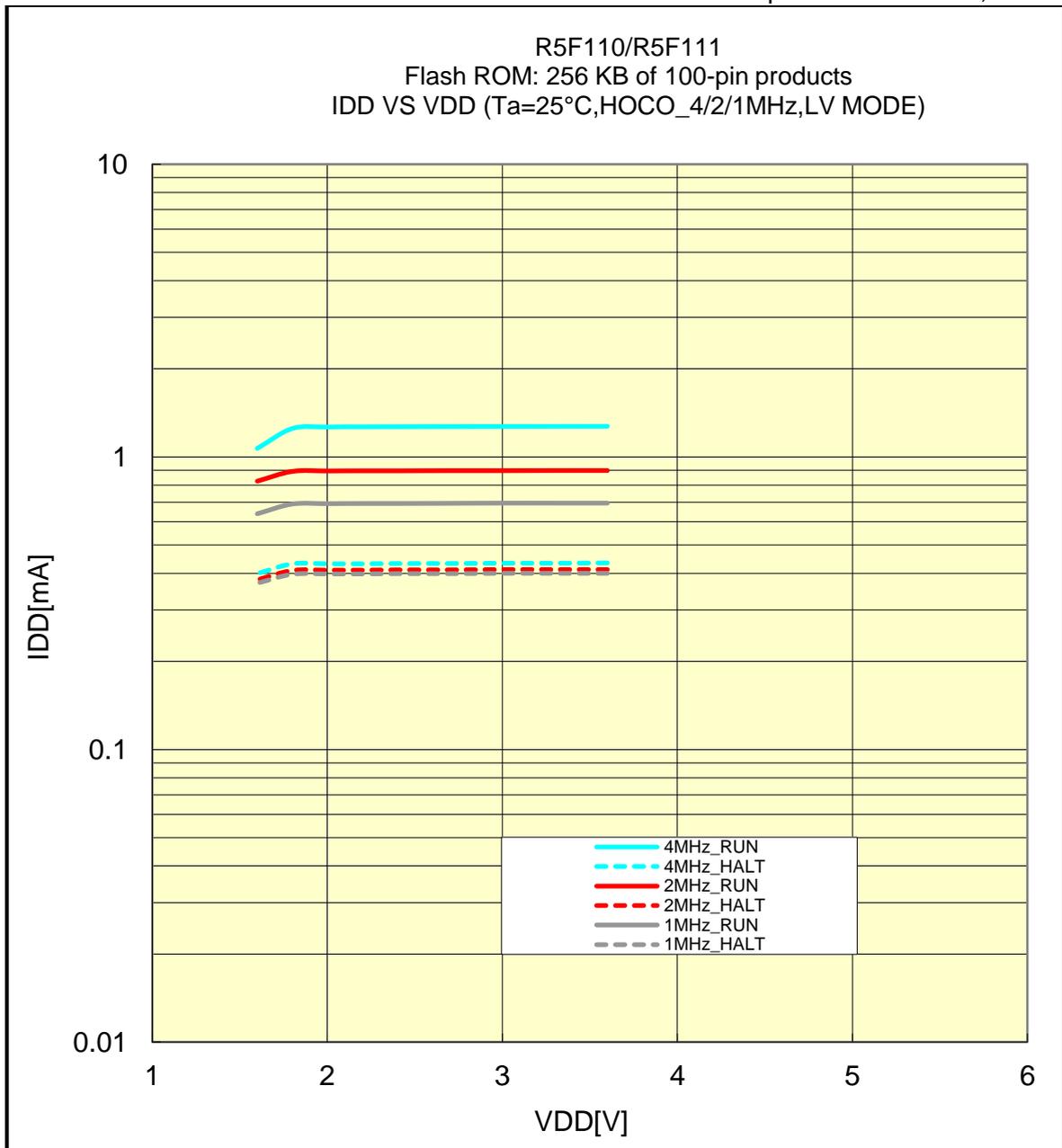- 1MHz_RUN
- 1MHz_HALT

X-axis: VDD[V]
Y-axis: IDD[mA]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(25°C/X'TAL/LS MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°C,X'TAL,LS MODE)

Legend:
- 8MHz_RUN
- 8MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
- 5MHz_RUN
- 5MHz_HALT
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
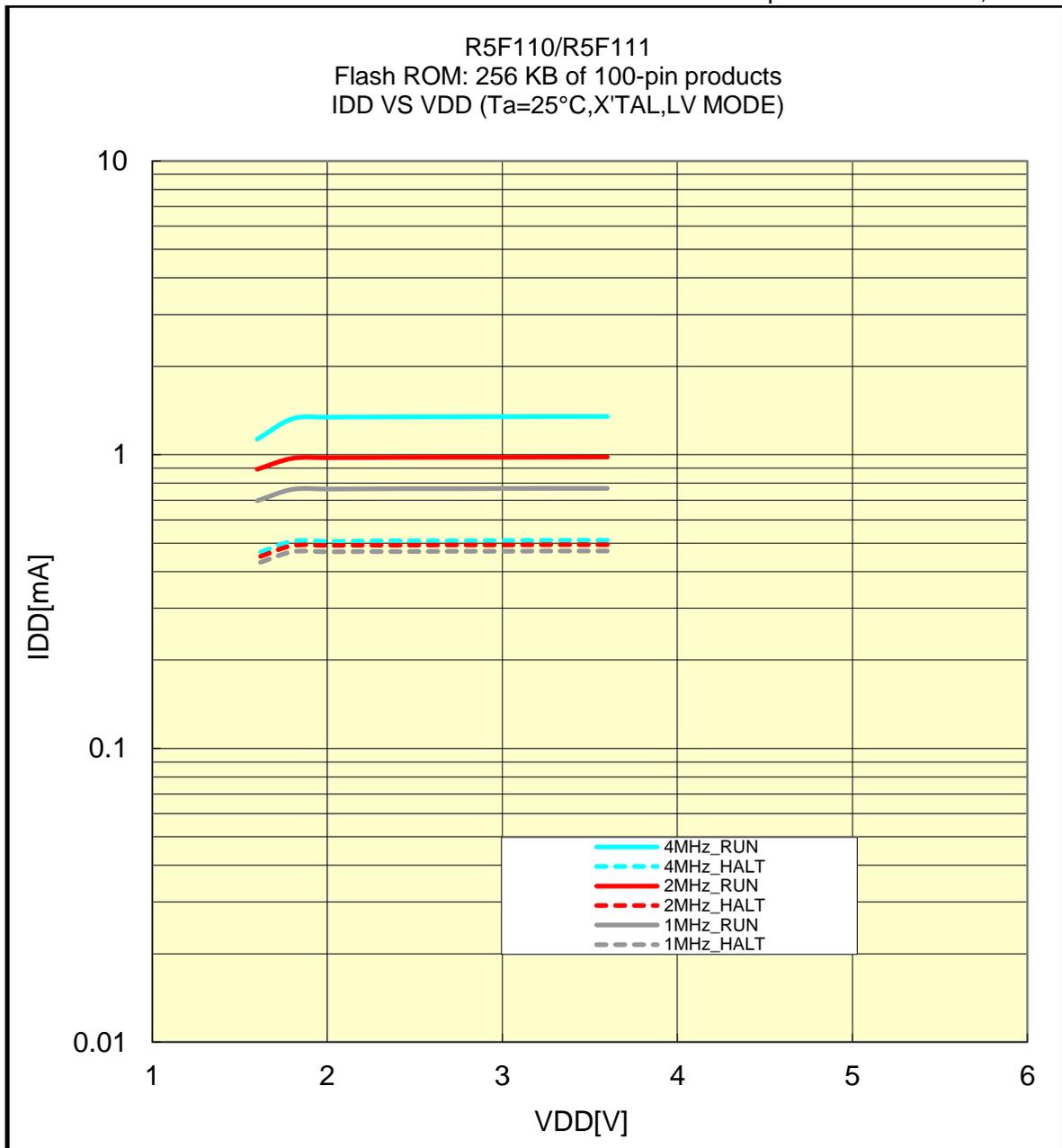- 1MHz_RUN

X-axis: VDD[V]
Y-axis: IDD[mA]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
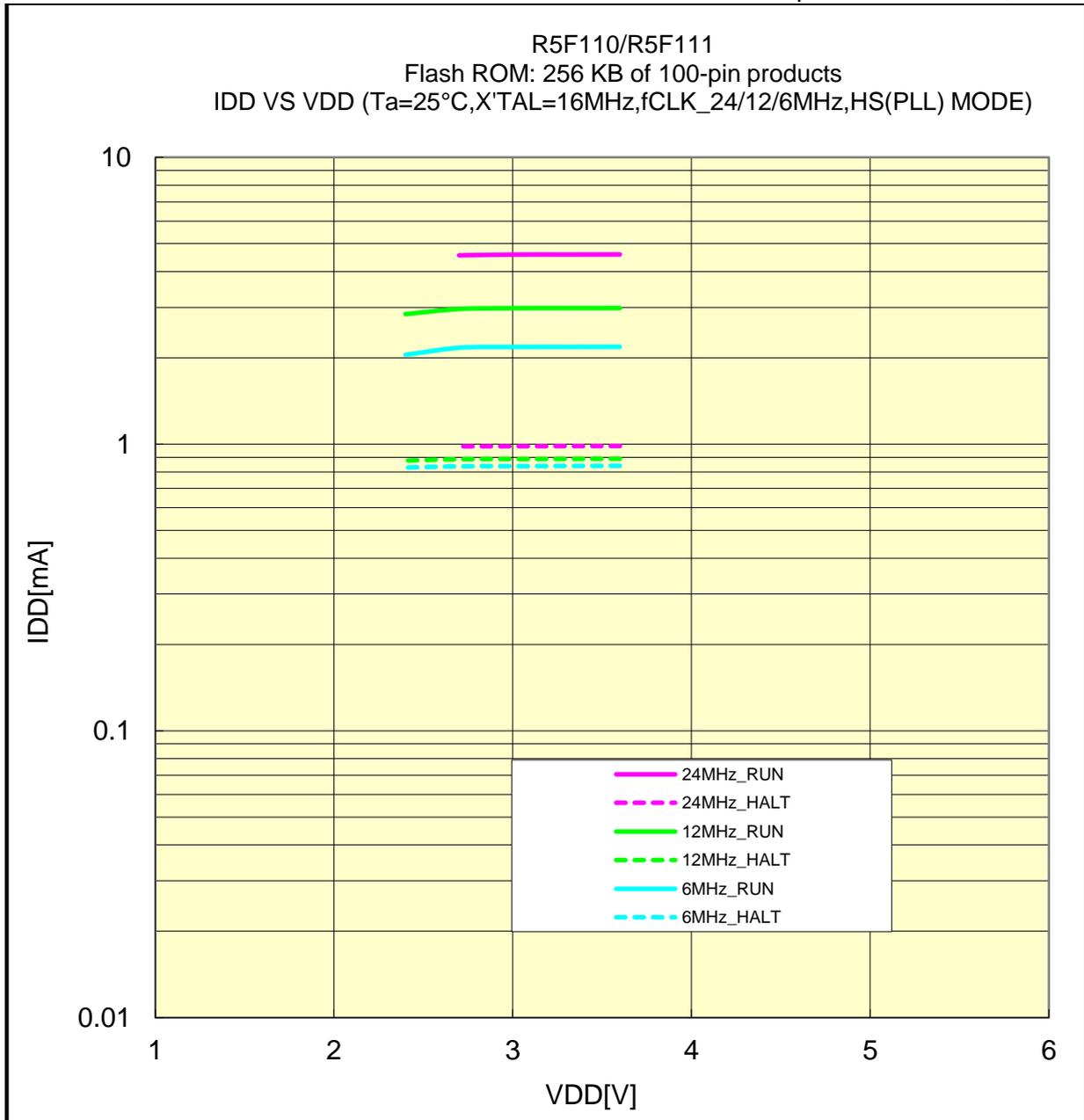IDD VS VDD (Ta=25°C,HOCO_4/2/1MHz,LV MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(25°C/X'TAL/LV MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°C,X'TAL,LV MODE)

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

X-axis: VDD[V] (1 to 6)
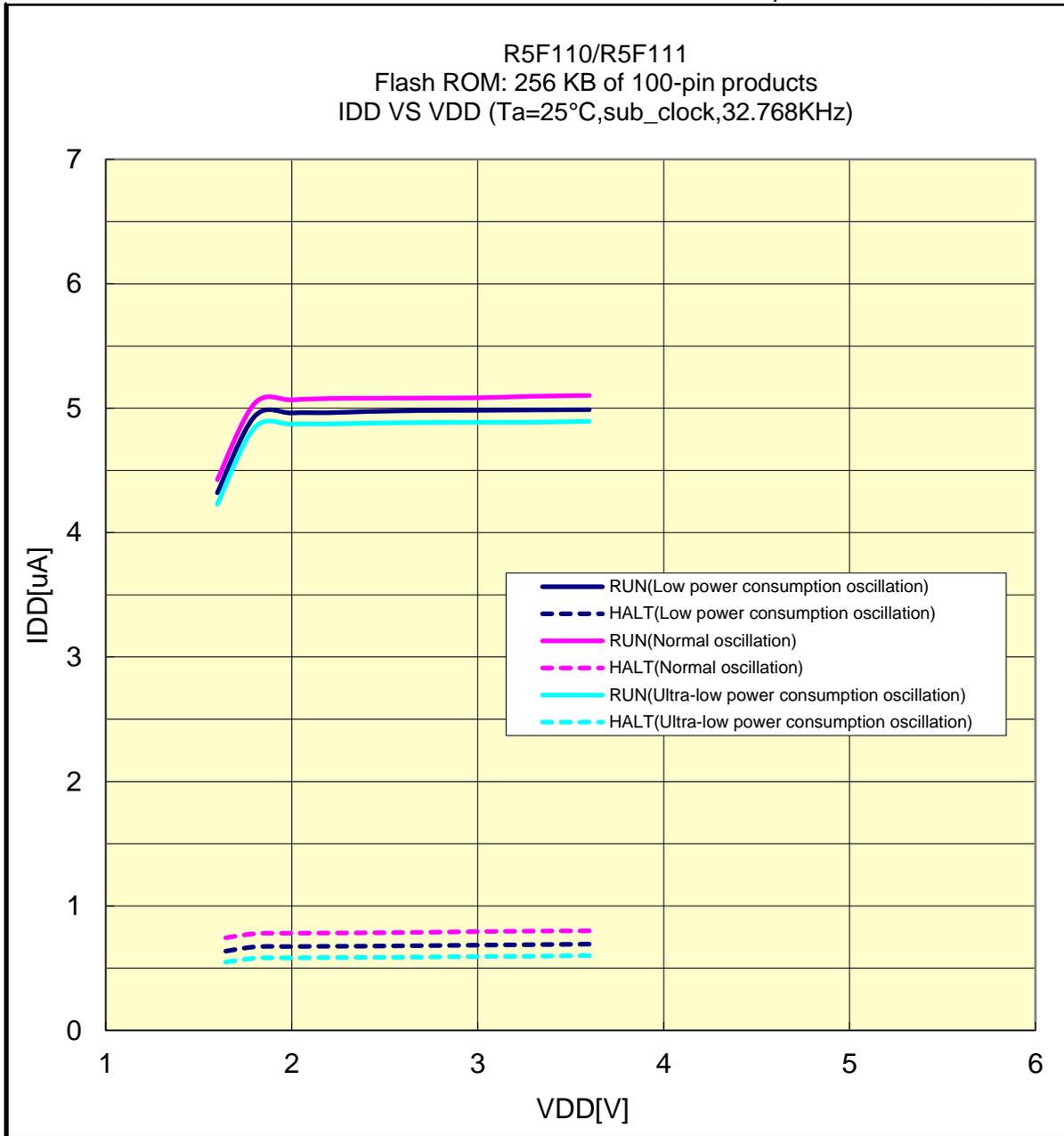Y-axis: IDD[mA] (0.01 to 10)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD
(25°C/X'TAL=16MHz,fCLK_24/12/6MHz/HS(PLL) MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=25°C,X'TAL=16MHz,fCLK_24/12/6MHz,HS(PLL) MODE)

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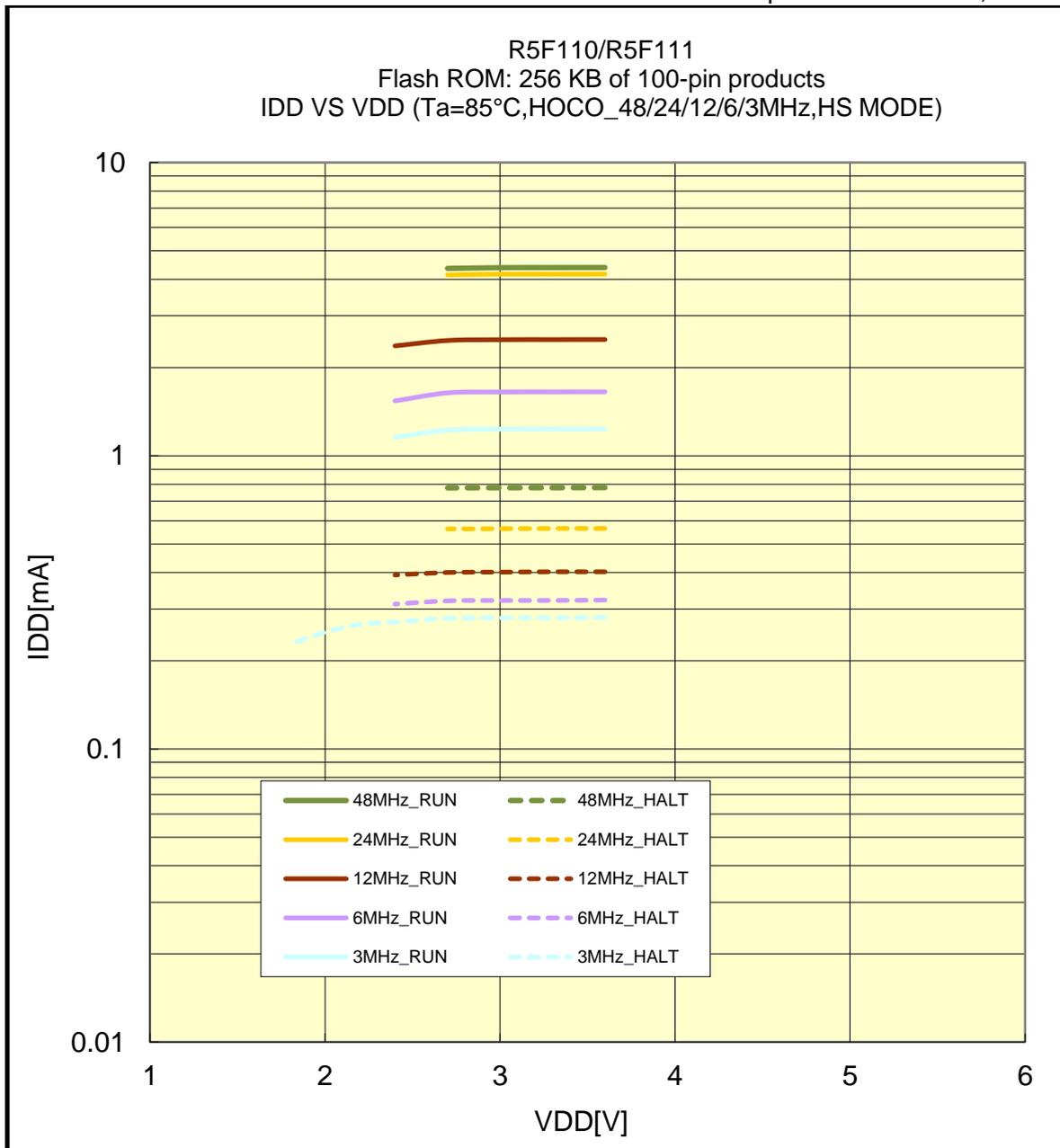- 6MHz_HALT

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.

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(25°C/sub_clock/32.768KHz)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-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)
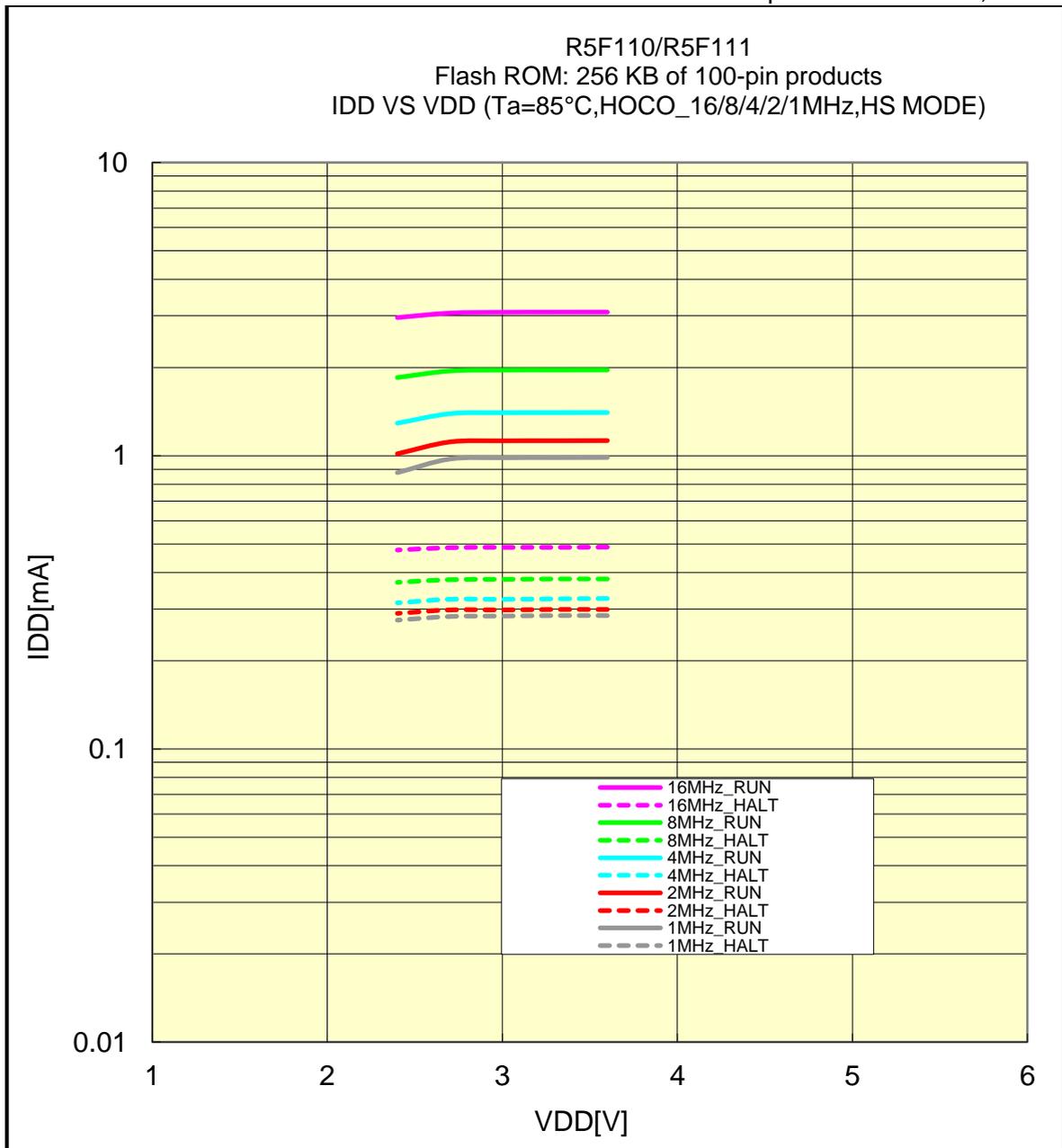
Axes: IDD[uA] vs VDD[V]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(85°C/HOCO_48/24/12/6/3MHz/HS MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=85°C,HOCO_48/24/12/6/3MHz,HS MODE)

Legend:
- 48MHz_RUN
- 48MHz_HALT
- 24MHz_RUN
- 24MHz_HALT
- 12MHz_RUN
- 12MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
- 3MHz_RUN
- 3MHz_HALT
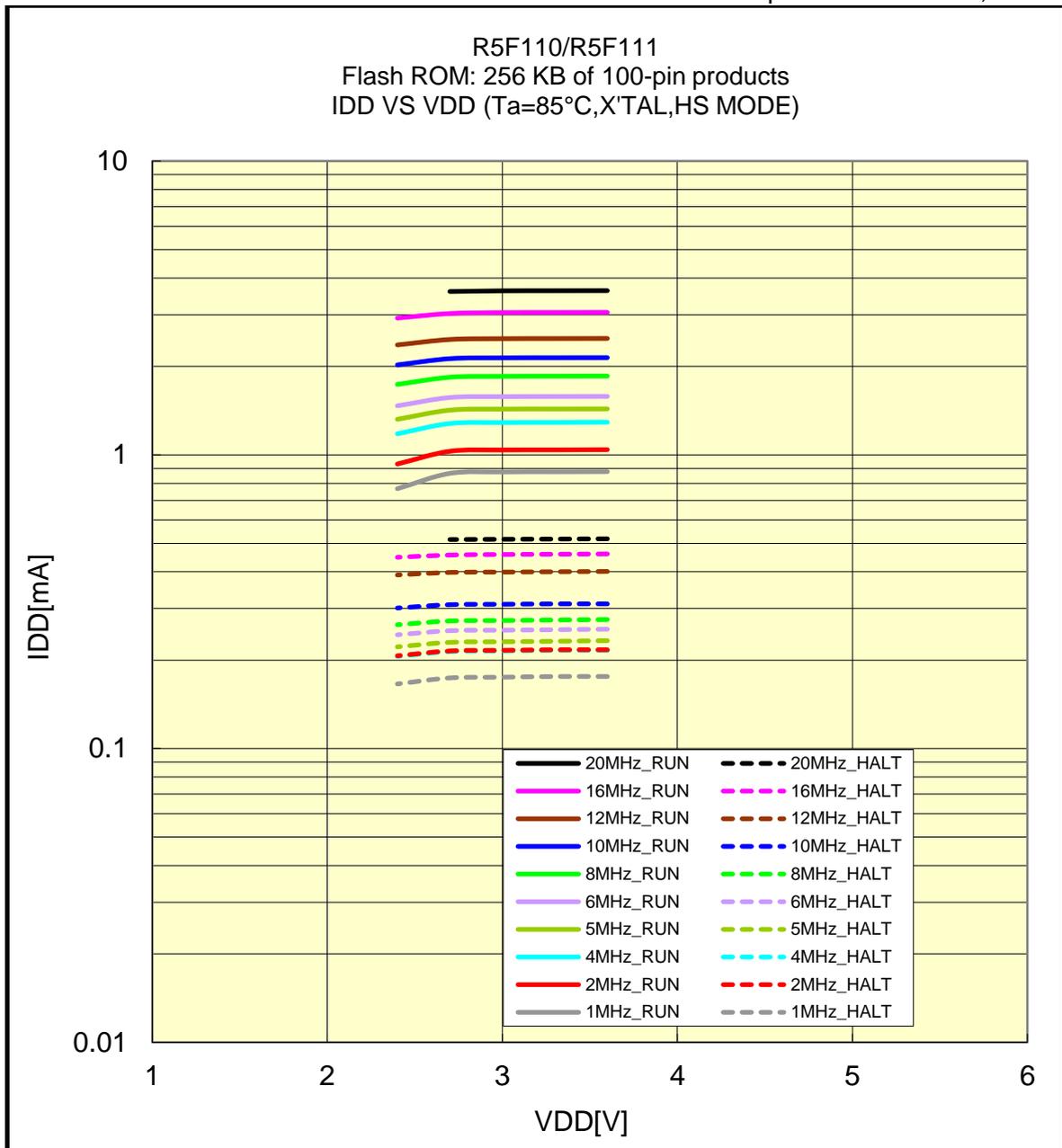
X-axis: VDD[V]
Y-axis: IDD[mA]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
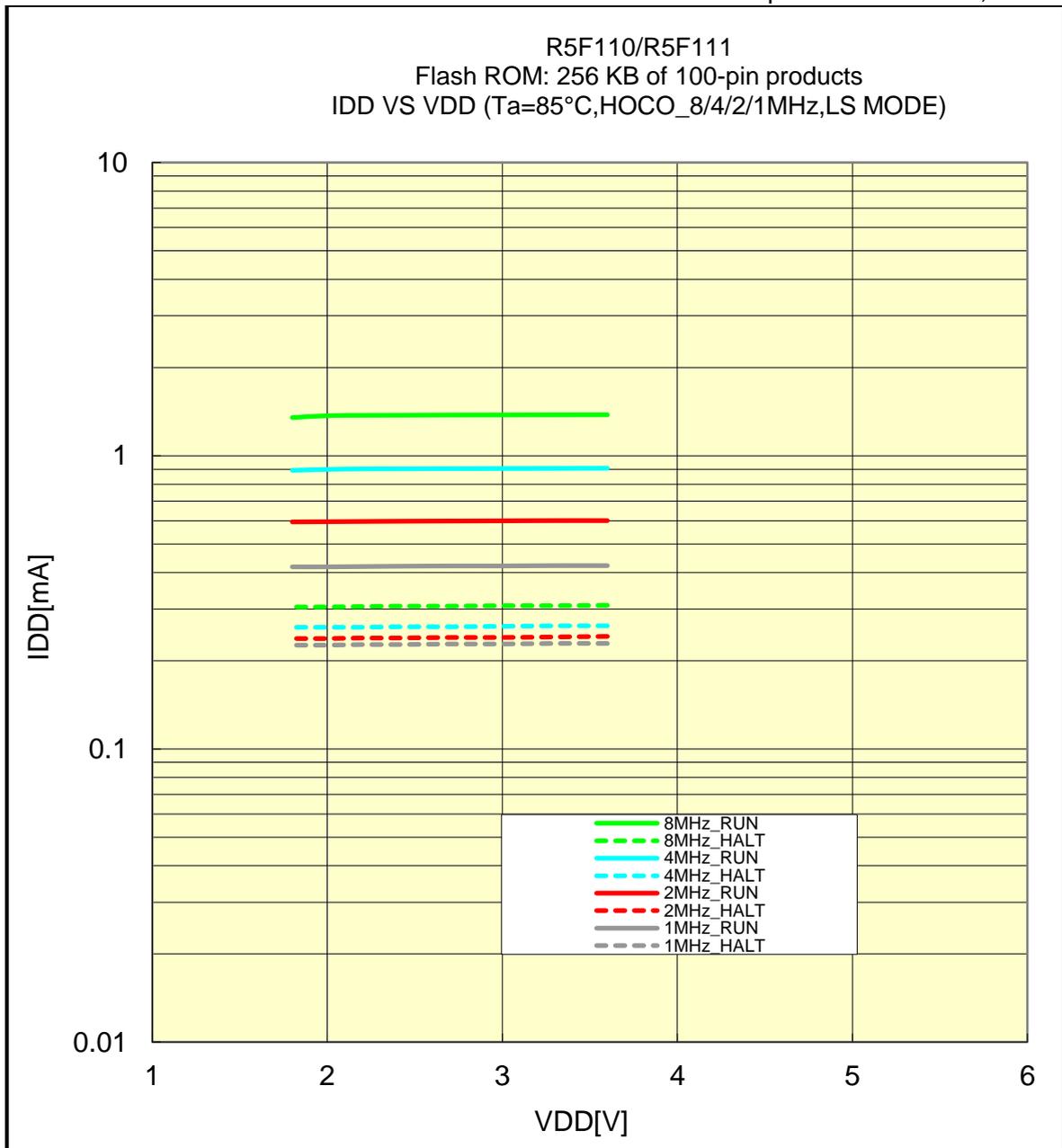IDD VS VDD (Ta=85°C,HOCO_16/8/4/2/1MHz,HS MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(85°C/X'TAL/HS MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
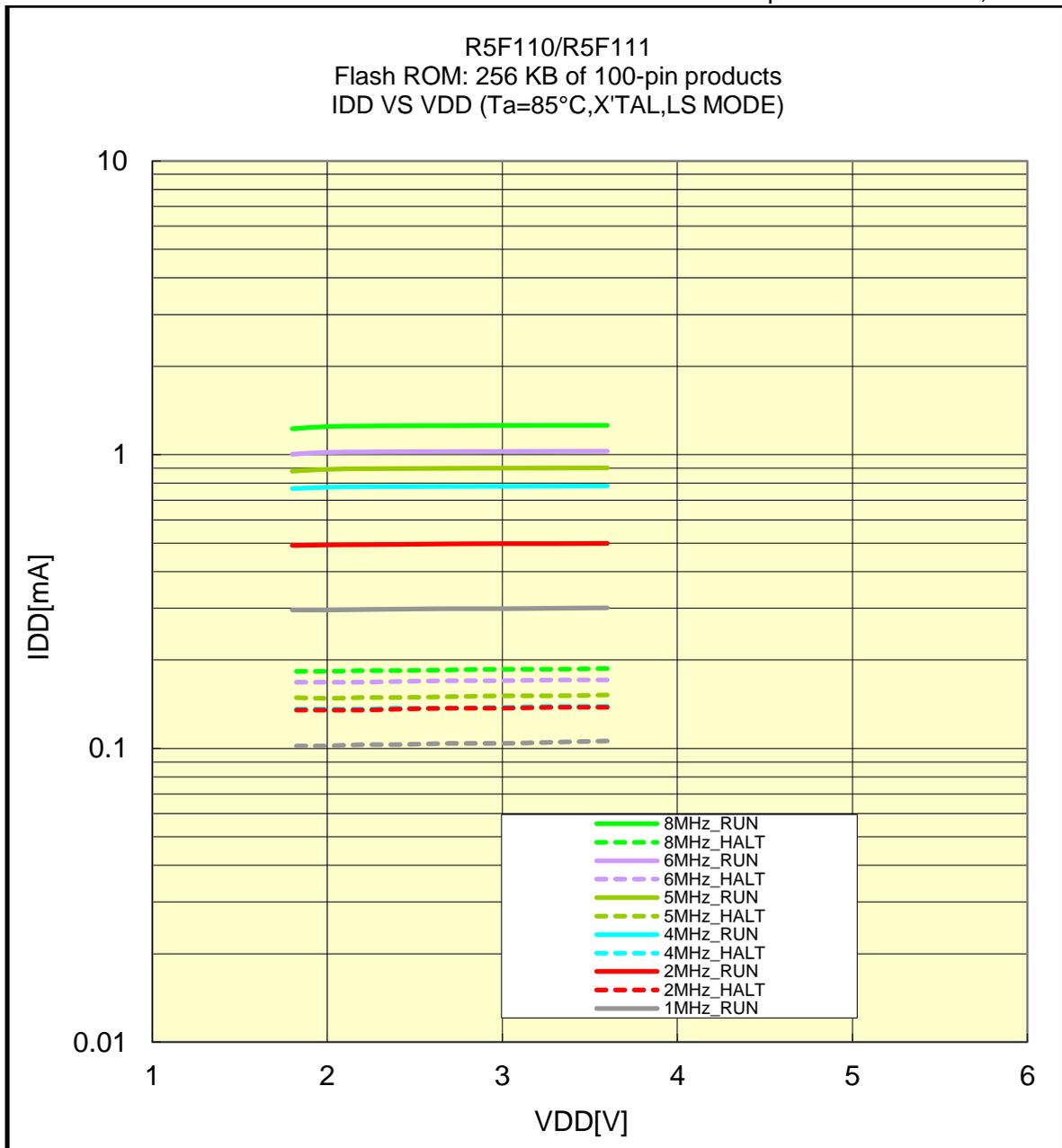Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=85°C,X'TAL,HS MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=85°C,HOCO_8/4/2/1MHz,LS MODE)

Legend:
- 8MHz_RUN
- 8MHz_HALT
- 4MHz_RUN
- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
- 1MHz_RUN
- 1MHz_HALT

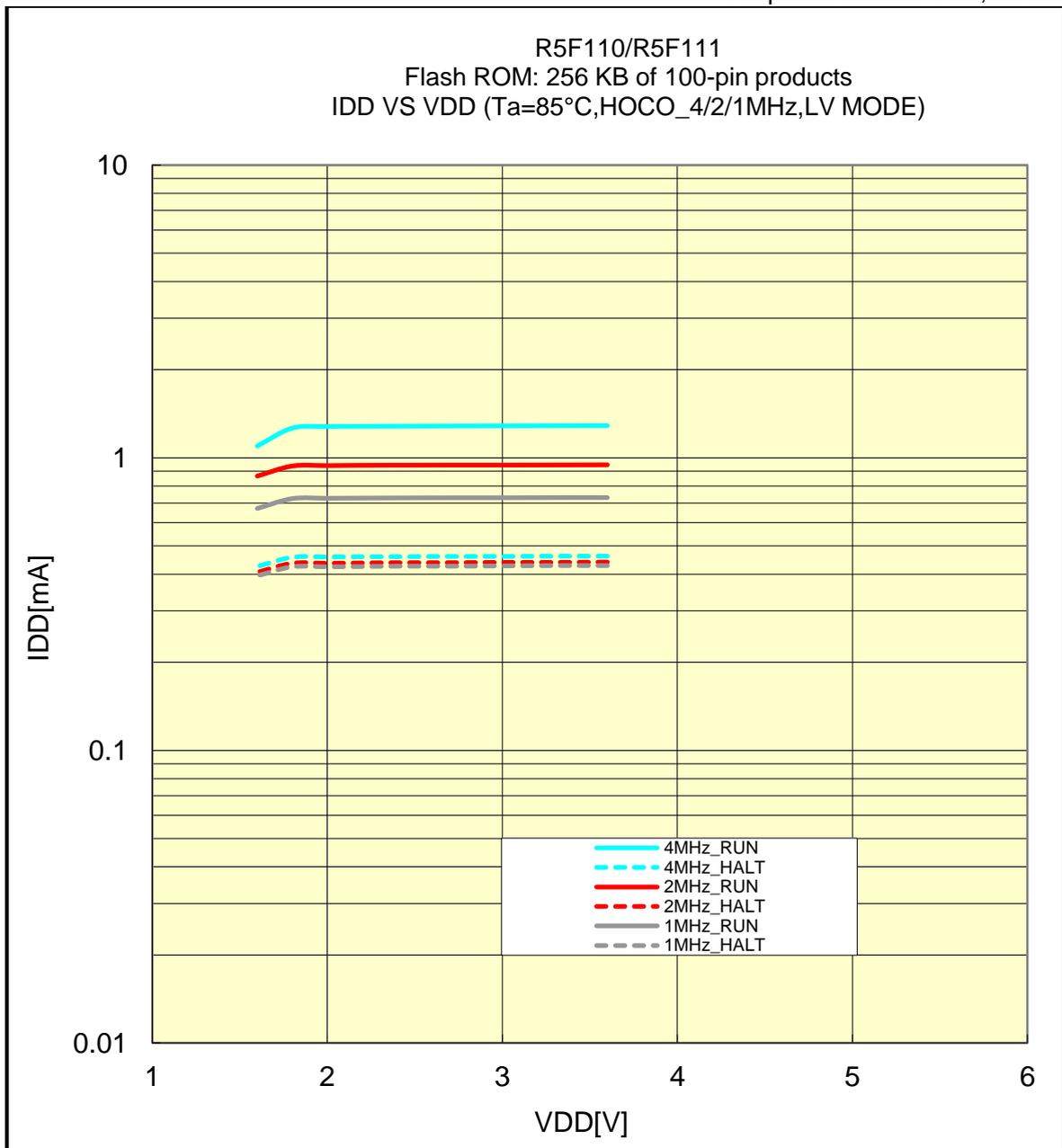Y-axis: IDD[mA] (0.01 to 10)
X-axis: VDD[V] (1 to 6)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(85°C/X'TAL/LS MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=85°C,X'TAL,LS MODE)

Legend:
- 8MHz_RUN
- 8MHz_HALT
- 6MHz_RUN
- 6MHz_HALT
- 5MHz_RUN
- 5MHz_HALT
- 4MHz_RUN
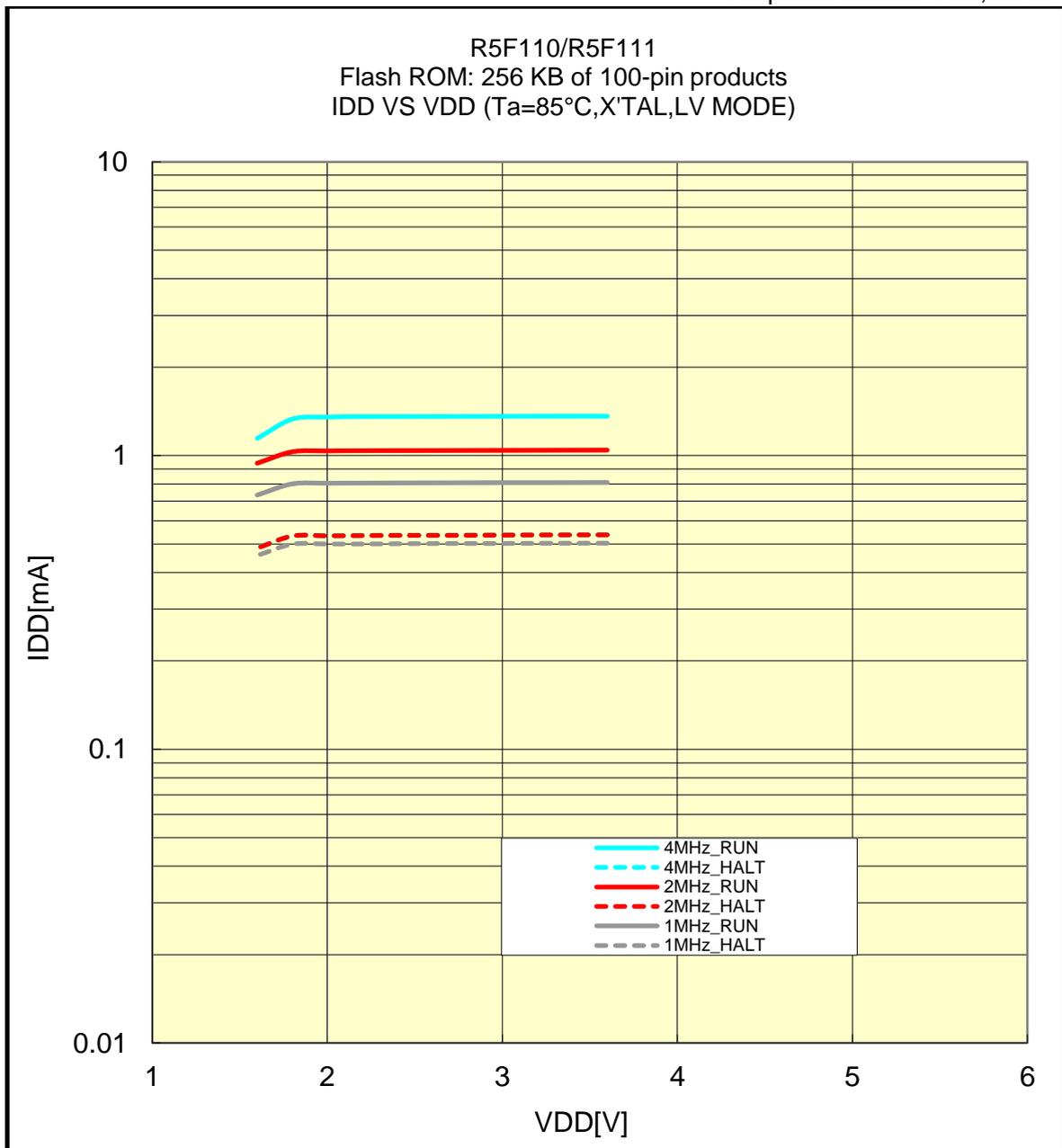- 4MHz_HALT
- 2MHz_RUN
- 2MHz_HALT
- 1MHz_RUN

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

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

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=85°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.

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(85°C/X'TAL/LV MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-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.
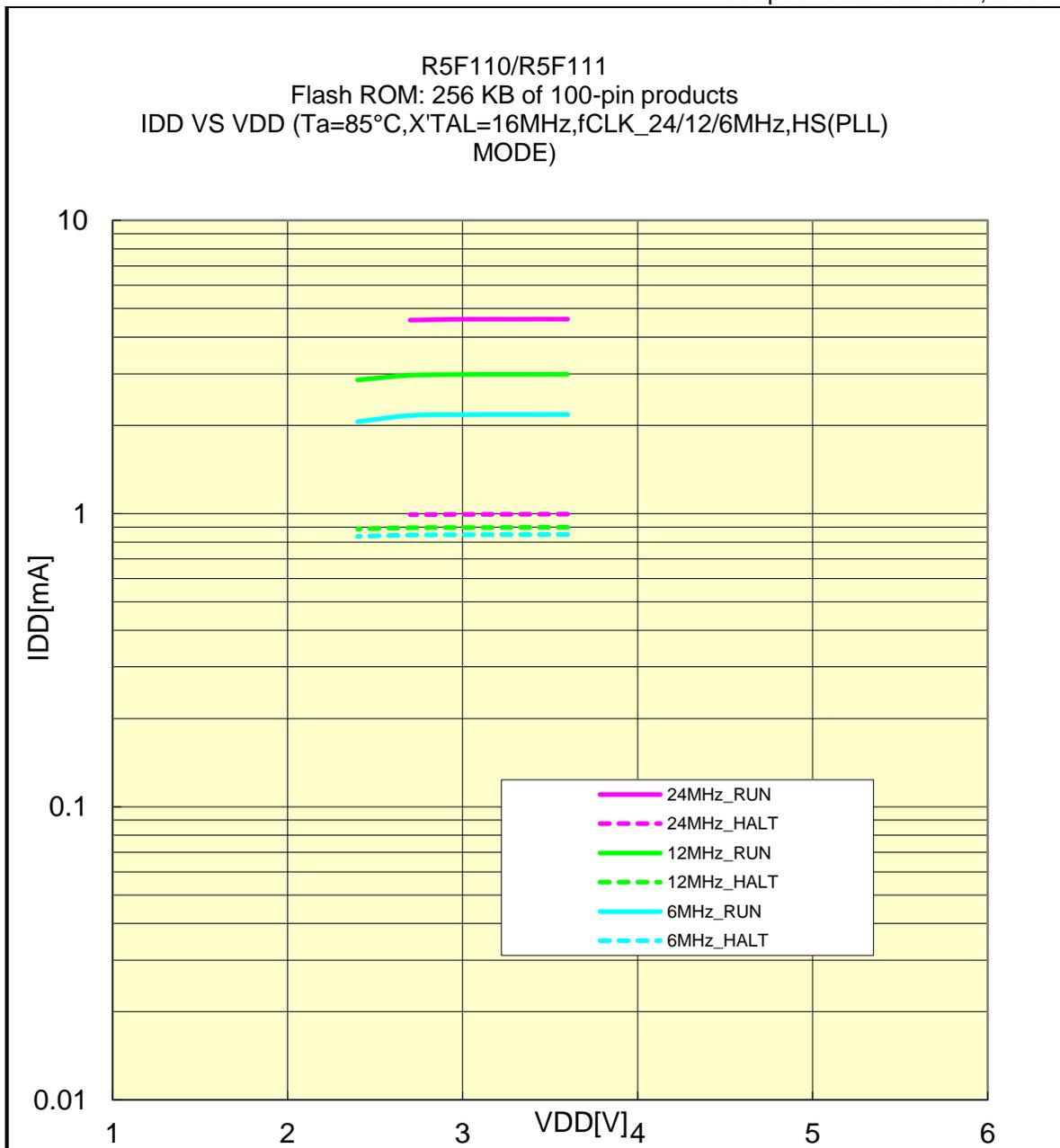
R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD
(85°C/X'TAL=16MHz,fCLK_24/12/6MHz/HS(PLL) MODE)

Prepared on Jul. 14th, 2013

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
IDD VS VDD (Ta=85°C,X'TAL=16MHz,fCLK_24/12/6MHz,HS(PLL) MODE)

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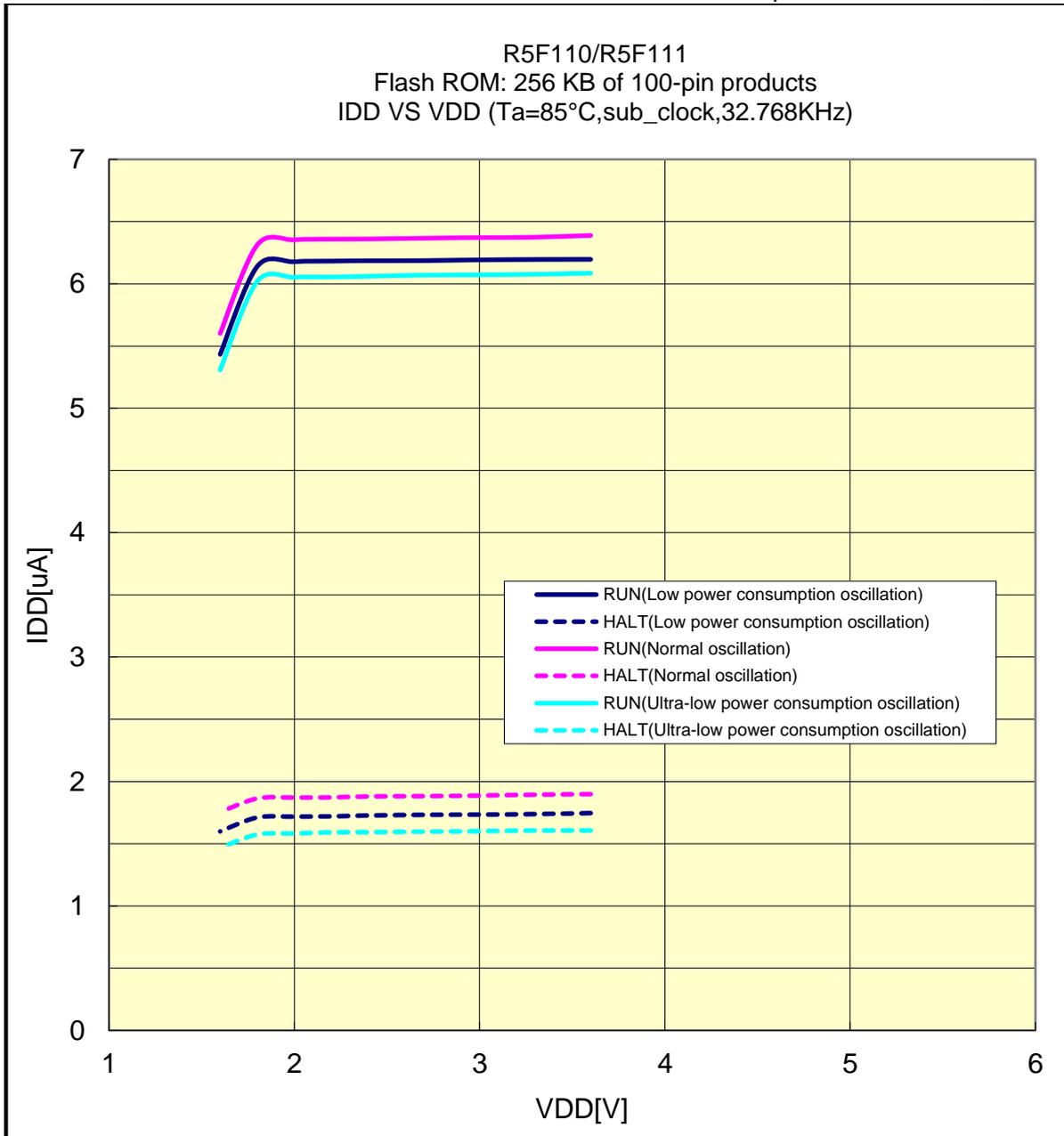- 12MHz_RUN
- 12MHz_HALT
- 6MHz_RUN
- 6MHz_HALT

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(85°C/sub_clock/32.768KHz)

R5F110/R5F111
Flash ROM: 256 KB of 100-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)
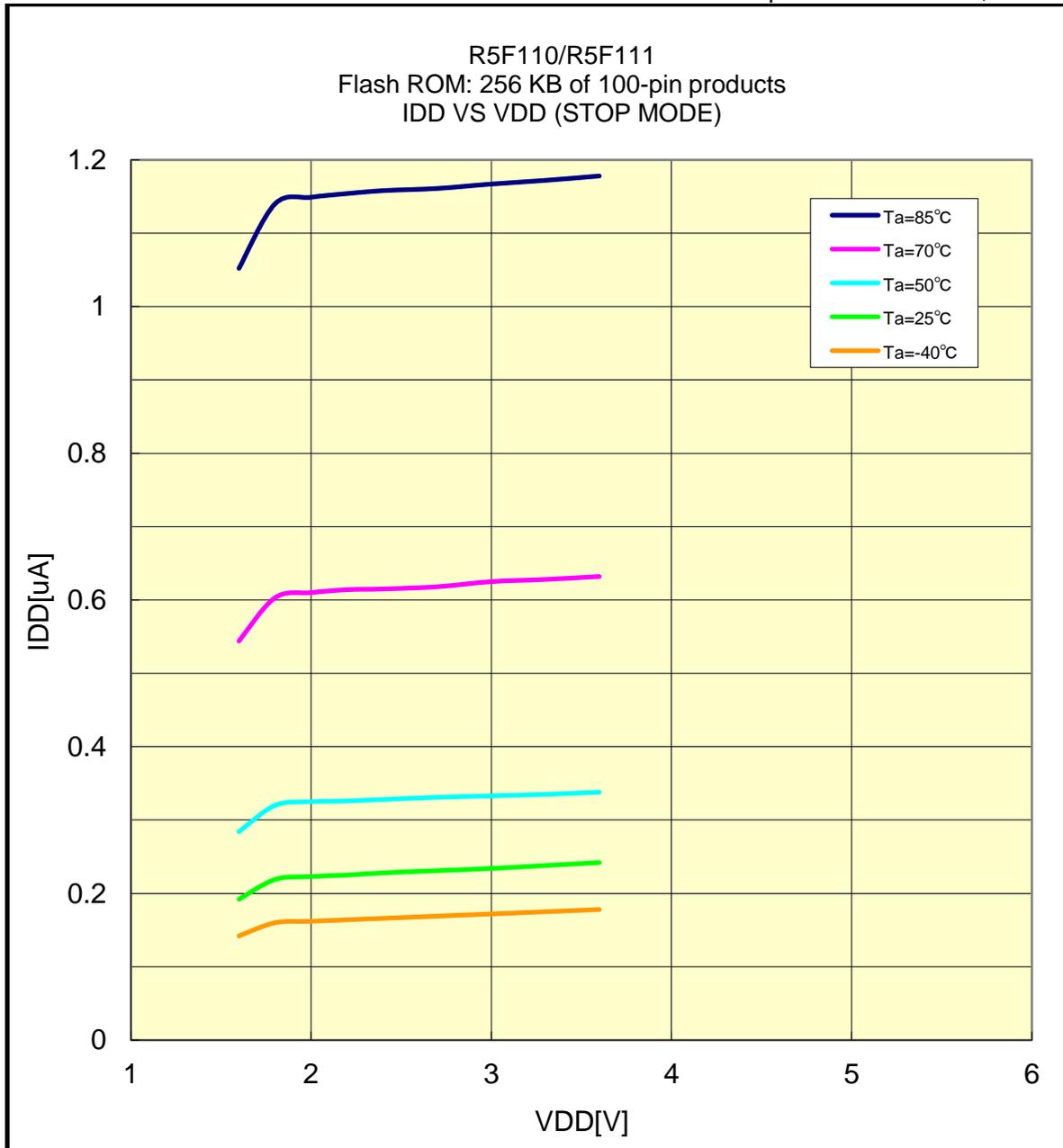
Y-axis: IDD[uA]
X-axis: VDD[V]

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS VDD(STOP MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-pin products
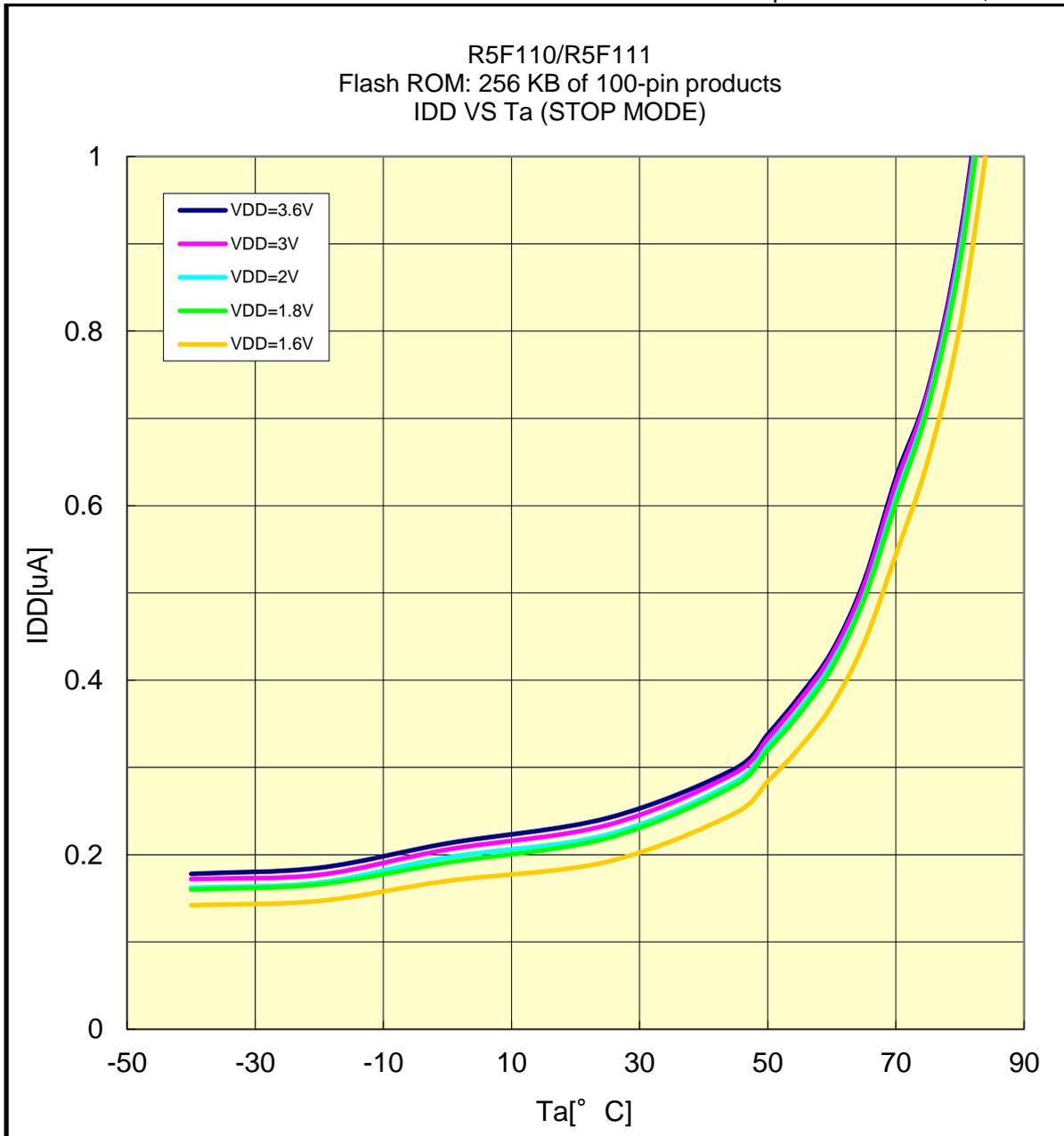IDD VS VDD (STOP MODE)

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

R5F110/R5F111
Flash ROM: 64 to 256 KB of 80 to 100-pin products

IDD VS Ta(STOP MODE)

R5F110/R5F111
Flash ROM: 256 KB of 100-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.