To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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(Note 2) “Renesas Electronics product(s)” means any product developed or manufactured by or for Renesas Electronics.

RENESAS

Phase-out/Discontinued

DIODE ARRAY
μPA64H

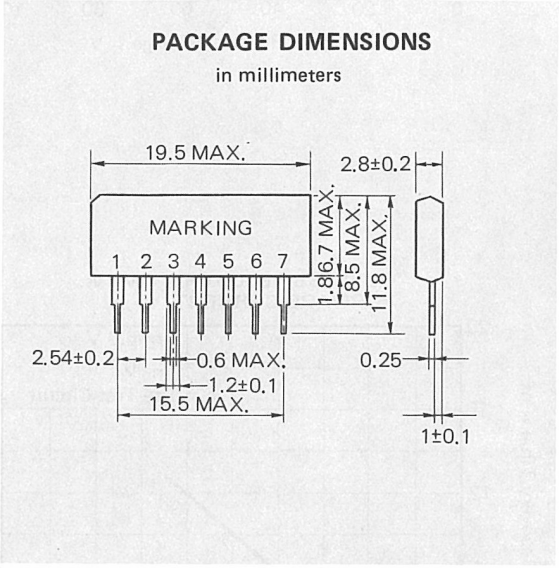
HIGH SPEED SWITCHING
SILICON EPITAXIAL DIODE ARRAY

DESCRIPTION

The μPA64H is a common anode monolithic array of six high speed switching diodes.

PACKAGE DIMENSIONS

in millimeters



FEATURES

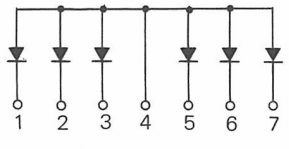
- High Speed Switching Time → t_{rr} 4.0 ns TYP.
- Small Terminal Capacitance → Ct 5.0 pF TYP.
- Small Size enables High Density Mounting
- Good Electrical Thermal Balance of Six Diode due to 1 Chip Structure
- Package is 7 pin PLASTIC SIP.

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Currents (T_a = 25 °C)			
Peak Reverse Voltage	V_{RM}	75	V
Reverse Voltage	V_R	50	V
Peak Forward Surge Current (1 μs)	$I_{F\ (surge)}$	1.0*	A
Peak Forward Current	I_{FM}	200*	mA
Average Rectified Current	I_O	100*	mA
Maximum Power Dissipation (Ta=25 °C)			
Power Dissipation	P	300**	mW
Maximum Temperatures			
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	−55 to +125	°C

* 1 Unit ** Package

PIN CONNECTION



Common Anode

ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Forward Voltage	V_F		0.8	1.0	V	I_F=30 mA
Reverse Current	I_R		0.005	0.1	μA	V_R=30 V
Terminal Capacitance*	Ct		5.0	8.0	pF	V_R=0, f=1.0 MHz
Reverse Recovery Time	t_{rr}		4.0	8.0	ns	See t_{rr} Reverse Recovery Time Test Circuit

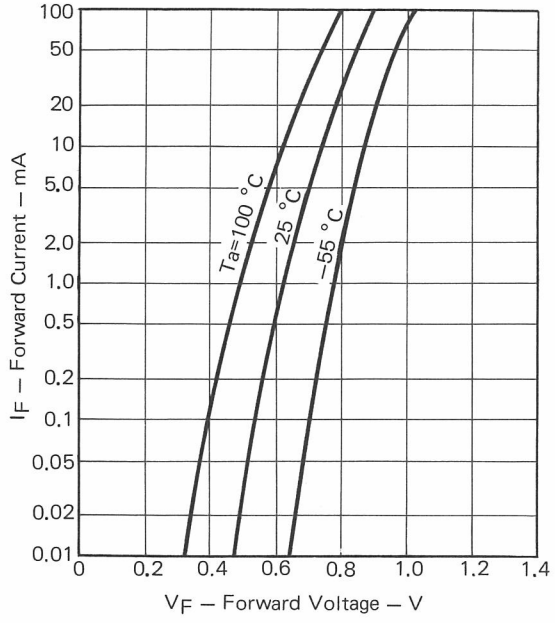
* 1 Unit

Nippon Electric Co.,Ltd.

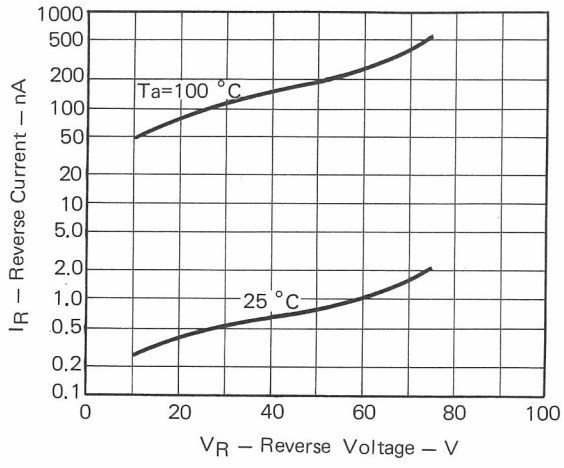
Phase-out/Discontinued

TYPICAL CHARACTERISTICS (Ta = 25 °C)

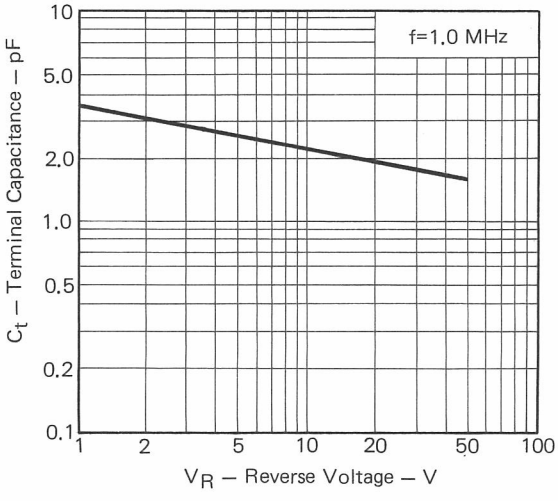
FOWARD CURRENT vs. FORWARD VOLTAGE



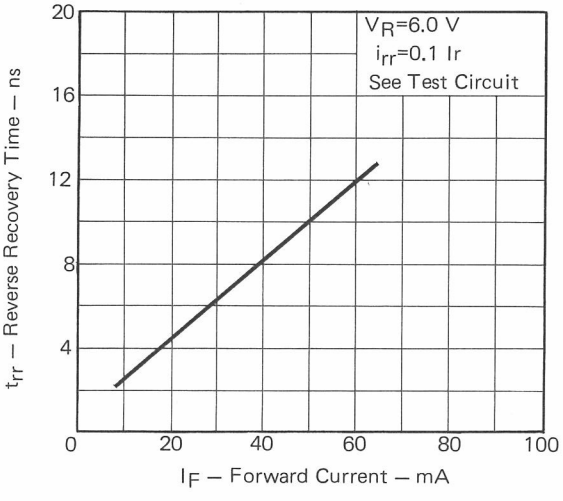
REVERSE CURRENT vs. REVERSE VOLTAGE



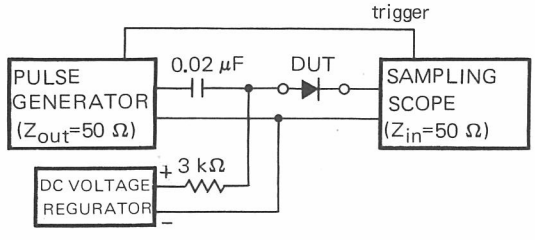
TERMINAL CAPACITANCE vs. REVERSE VOLTAGE

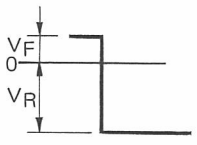


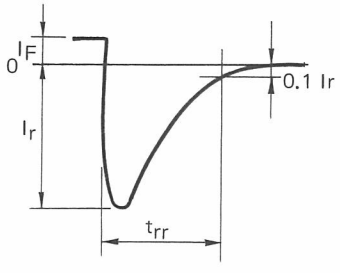
REVERSE RECOVERY TIME vs. FORWARD CURRENT



trr REVERSE RECOVERY TIME TEST CIRCUIT







Test Conditions : I_F=10 mA, V_R=6 V, R_L=100 Ω, i_{rr}=0.1 Ir

Please note our new name,
NEC Corporation, starting April 1, 1983.

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IC-1406
AUG.-20-81RK
Printed in Japan