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

April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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# 1SS270A

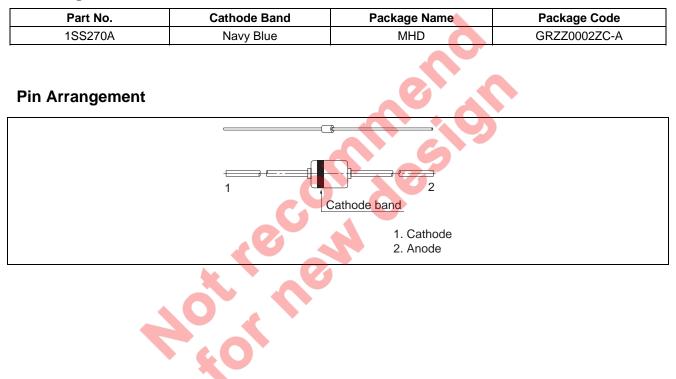
Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G0567-0400 Rev.4.00 Sep 29, 2008

### Features

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time. ( $t_{rr} = 3.5$  ns max)
- Small glass package (MHD) enables easy mounting and high reliability.

### **Ordering Information**



## **Absolute Maximum Ratings**

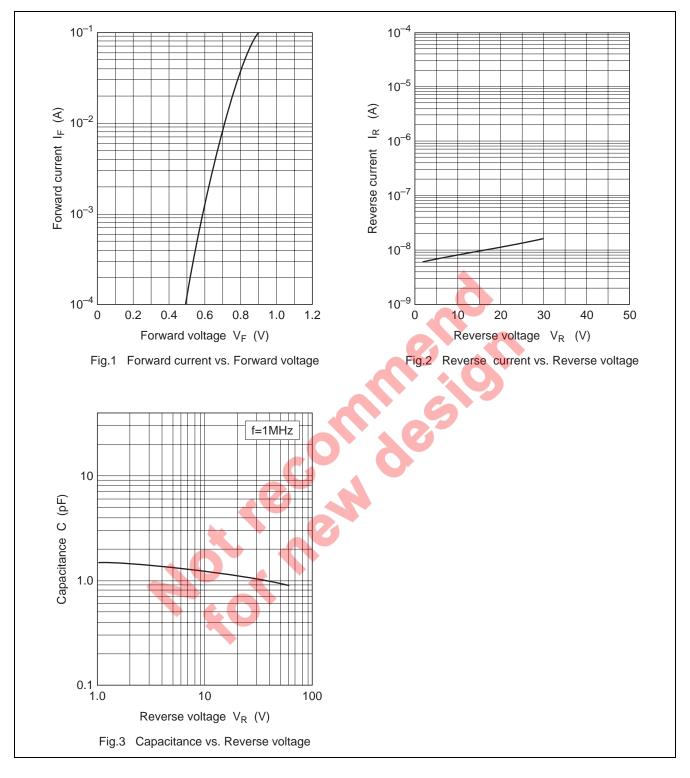
			$(Ta = 25^{\circ}C)$
Item	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub>	70	V
Reverse voltage	V <sub>R</sub>	60	V
Average rectified current	lo	150	mA
Peak forward current	I <sub>FM</sub>	450	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> *	1	А
Power dissipation	Pd	250	mW
Junction temperature	Тј	175	°C
Storage temperature	Tstg	-65 to +175	°C

Note: Within 1s forward surge current.

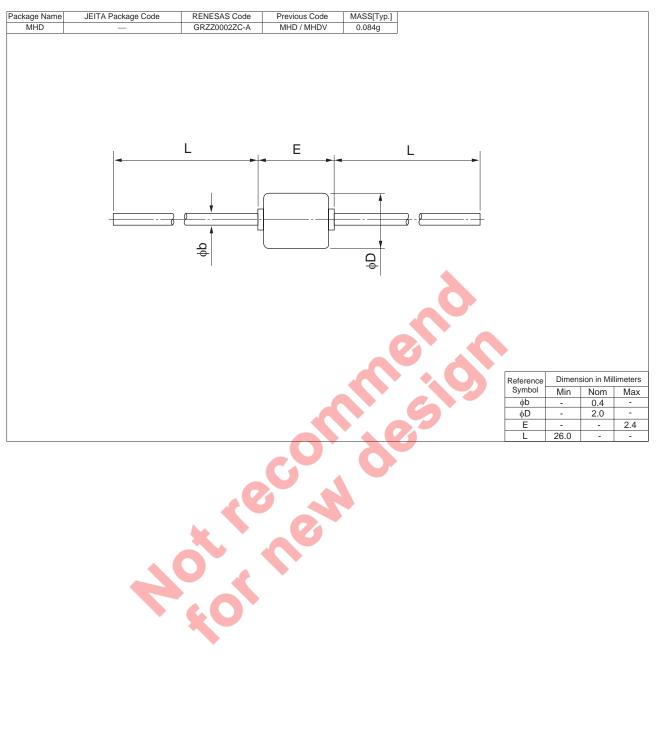
## **Electrical Characteristics**

						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	_	_	0.8	V	I <sub>F</sub> = 10 mA
Reverse current	I <sub>R</sub>	_	_	1.0	μΑ	V <sub>R</sub> = 60 V
Capacitance	С	_	_	3.0	рF	$V_R = 1 V$ , f = 1 MHz
Reverse recovery time	t <sub>rr</sub>	_		3.5	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$
					3	

### **Main Characteristic**



### **Package Dimensions**



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