

1SS270

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G0566-0400 Rev.4.00 Sep 29, 2008

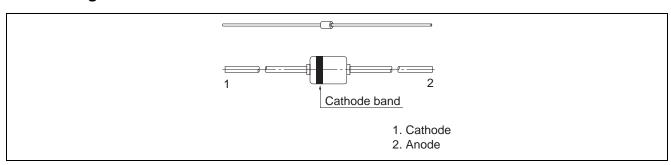
Features

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

Ordering Information

Part No.	Cathode Band	Package Name	Package Code
1SS270	Light Blue	MHD	GRZZ0002ZC-A

Pin Arrangement



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	35	V
Reverse voltage	V_R	30	V
Average rectified current	I ₀	150	mA
Peak forward current	I _{FM}	450	mA
Non-Repetitive peak forward surge current	I _{FSM} *	1	Α
Power dissipation	Pd	250	mW
Junction temperature	Tj	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_{F}			0.8	V	$I_F = 10 \text{ mA}$
Reverse current	I_R	_	_	1.0	μΑ	V _R = 30 V
Capacitance	С	_	_	3.0	pF	V _R = 1 V, f = 1 MHz
Reverse recovery time	t _{rr}			3.5	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$

Main Characteristic

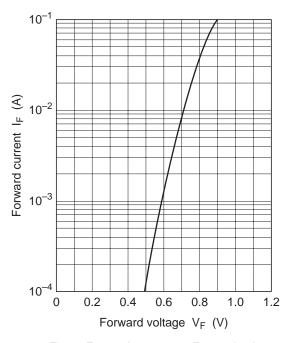


Fig.1 Forward current vs. Forward voltage

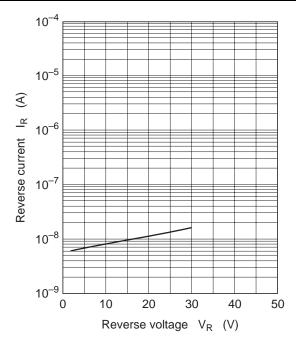


Fig.2 Reverse current vs. Reverse voltage

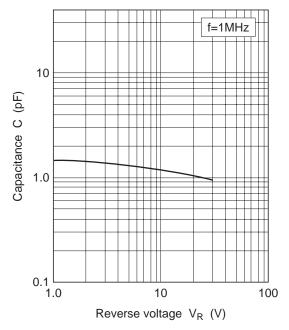
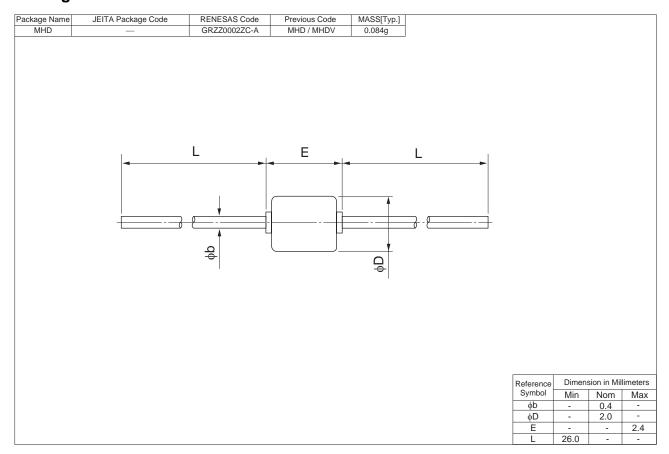


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions



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