

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. ($t_{rr} = 3.5$ 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	lo	150	mA
Peak forward current	I _{FM}	450	mA
Non-Repetitive peak forward surge current	I _{FSM} *	1	А
Power dissipation	Pd	250	mW
Junction temperature	Тј	175	٥°
Storage temperature	Tstg	-65 to +175	°C

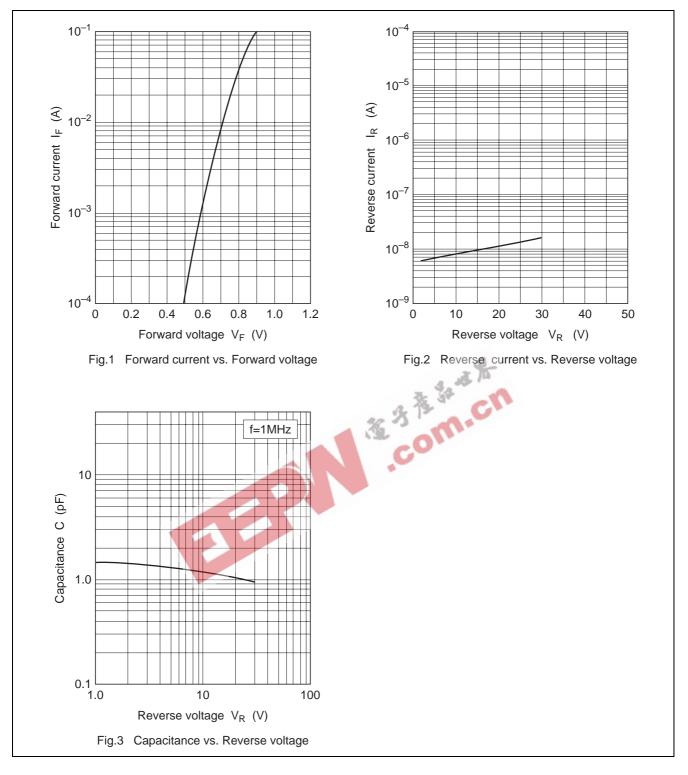
Note: Within 1s forward surge current.

Electrical Characteristics

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

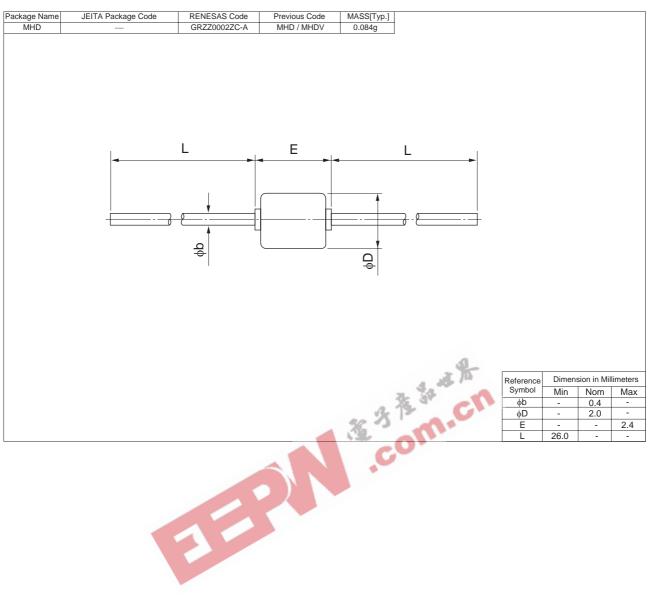
Item	Symbol	Min	Тур	Max	Unit	Test Condition				
Forward voltage	V _F	_	—	0.8	V	I _F = 10 mA				
Reverse current	I _R		_	1.0	μΑ	$V_R = 30 V$				
Capacitance	С		_	3.0	pF	$V_R = 1 V$, f = 1 MHz				
Reverse recovery time	t _{rr}		_	3.5	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$				
Reverse recovery time t_{rr} — — 3.5 ns I_{P} = 10 mA, V_{R} = 6 V, R_{L} = 50 Ω										

Main Characteristic



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Package Dimensions



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