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1SS270A

Silicon Epitaxial Planar Diode for High Speed Switching



ADE-208-166B (Z)

Rev.2 Oct. 2000

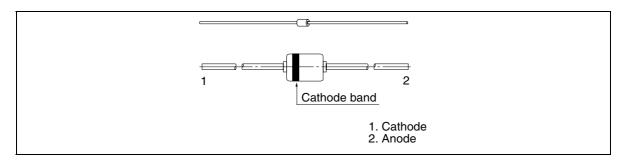
Features

- 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

Type No.	Cathode band	Package Code
1SS270A	Navy Blue	MHD

Pin Arrangement



1SS270A

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Peak reverse voltage	V _{RM}	70	V	
Reverse voltage	V _R	60	V	
Average rectified current	I _o	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 mA
Reverse current	I _R	_	_	1.0	μΑ	V _R = 60 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

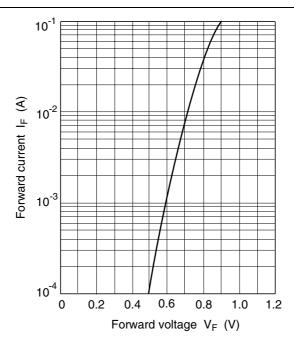


Fig.1 Forward current Vs. Forward voltage

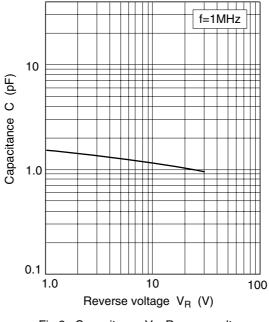
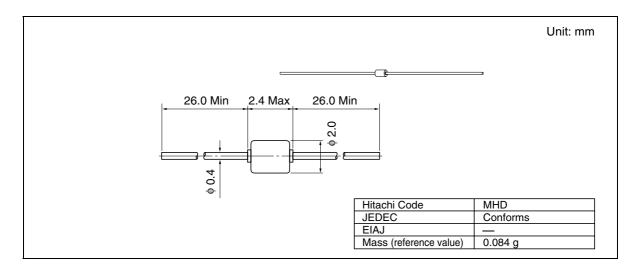


Fig.2 Capacitance Vs. Reverse voltage

1SS270A

Package Dimensions



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