
1SS270A

Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

ADE-208-166B (Z)

Rev.2
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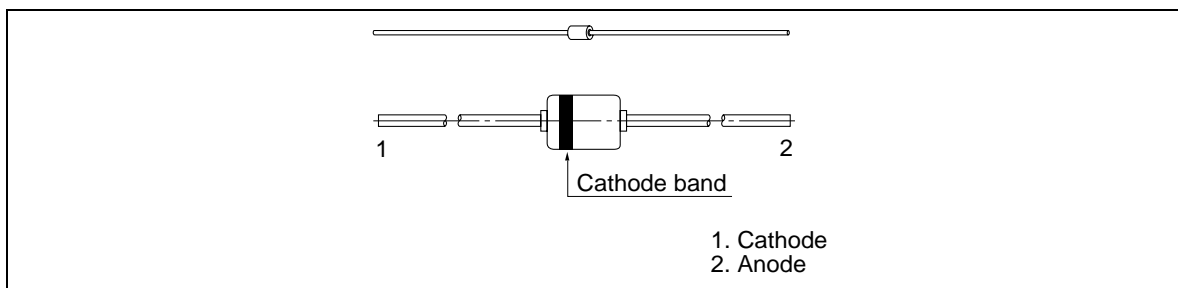
Features

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

Ordering Information

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

Outline



1SS270A

Absolute Maximum Ratings

(Ta = 25°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	A
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°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	0.8	V	$I_F = 10 \text{ mA}$
Reverse current	I_R	—	—	1.0	μA	$V_R = 60 \text{ V}$
Capacitance	C	—	—	3.0	pF	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$
Reverse recovery time	t_{rr}	—	—	3.5	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$

Main Characteristic

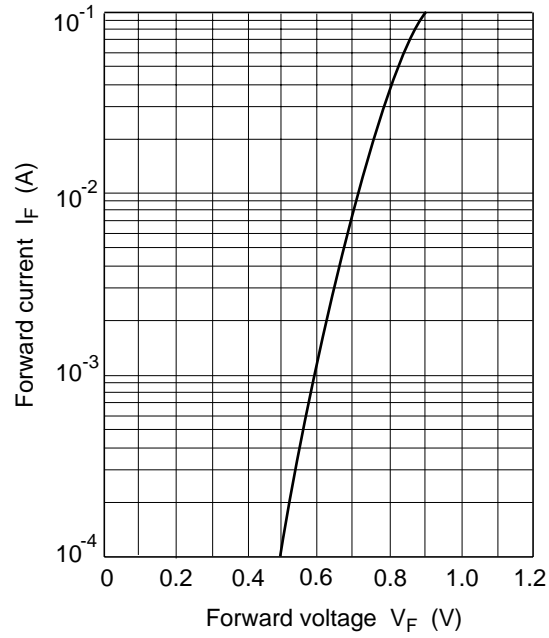


Fig.1 Forward current Vs. Forward voltage

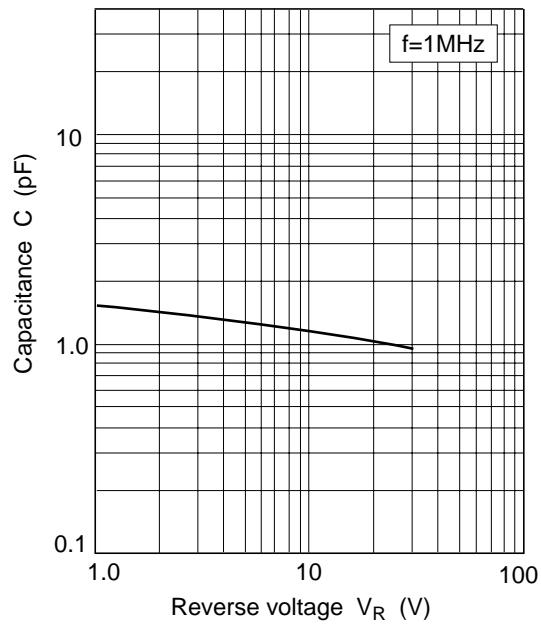
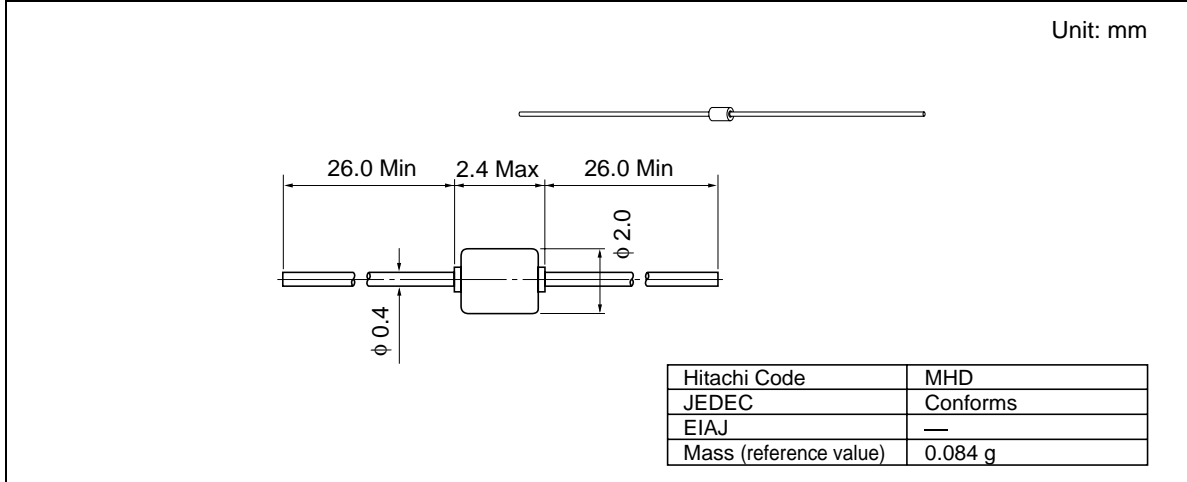


Fig.2 Capacitance Vs. Reverse voltage

1SS270A

Package Dimensions



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