HSS81

Silicon Epitaxial Planar Diode for High Voltage Switching

HITACHI

ADE-208-175A (Z) Rev. 1 Jul. 1995

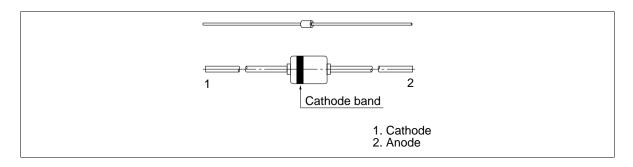
Features

- High reverse voltage. $(V_R = 150V)$
- Suitable for 5mm pitch high speed automatical insertion.
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Type No.	Cathode band	Package Code
HSS81	Green	MHD

Outline





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Absolute Maximum Ratings* 2 (Ta = 25°C)

Item	Symbol	Value	Unit	
Peak reverse voltage	V_{RM}^{*1}	200	V	
Reverse voltage	V _R	150	V	
Peak forward current	I _{FM}	625	mA	
Non-Repetitive peak forward surge current	I _{FSM} *2	1	Α	
Average forward current	Io	150	mA	
Power dissipation	Pd	400	mW	
Junction temperature	Tj	200	°C	
Storage temperature	Tstg	-65 to +175	°C	

Notes: 1. Reverse voltage in excess of peak reverse voltage may deteriorate electrical characteristic.

2. Within 1s forward surge current.

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F}	_	_	1.0	V	I _F = 100mA
Reverse current	I _{R1}		_	0.2	μΑ	V _R = 150V
	I _{R2}		_	100		V _R = 200V
Capacitance	С	_	1.5	_	pF	V _R = 0V, f = 1MHz
Reverse recovery time	t _{rr}	_	_	100	ns	$I_F = I_R = 30 \text{mA}, \text{ Irr} = 3 \text{mA}, R_L = 100 \Omega$

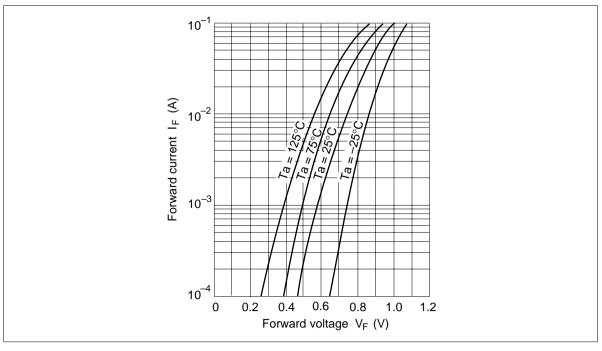


Fig.1 Forward current Vs. Forward voltage

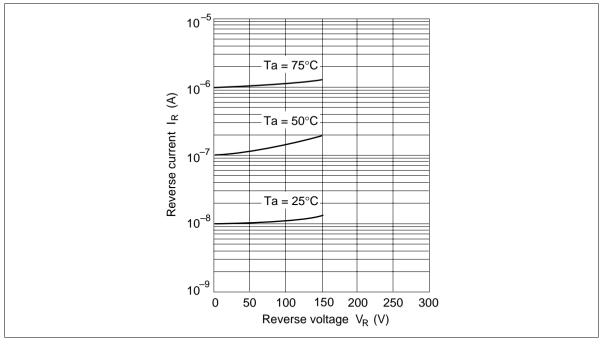


Fig.2 Reverse current Vs. Reverse voltage

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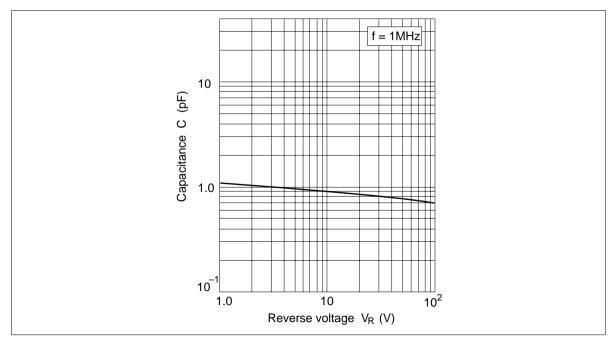
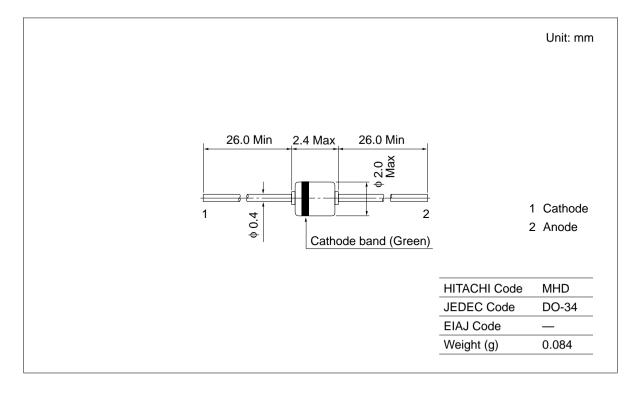


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions



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