Silicon Epitaxial Planar Diode for High Voltage Switching

HITACHI

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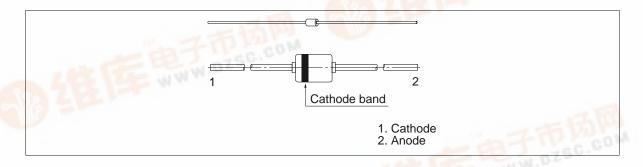
Features

- 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





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	$I_F = 100 \text{mA}$
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	$I_F = I_R = 30 \text{mA}, \text{ Irr} = 3 \text{mA}, R_L = 100 \Omega$

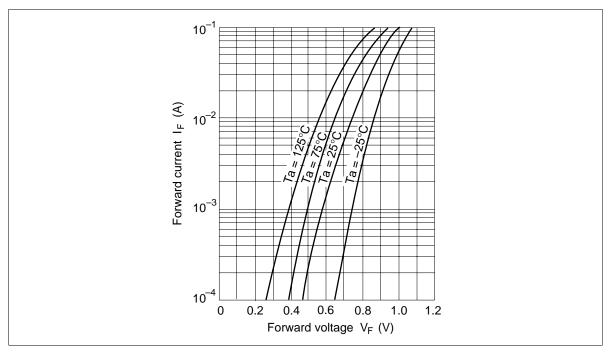


Fig.1 Forward current Vs. Forward voltage

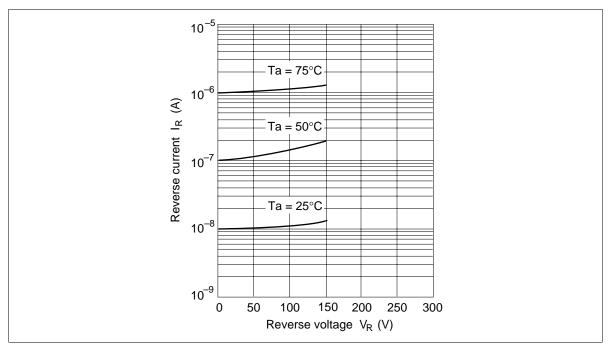


Fig.2 Reverse current Vs. Reverse voltage

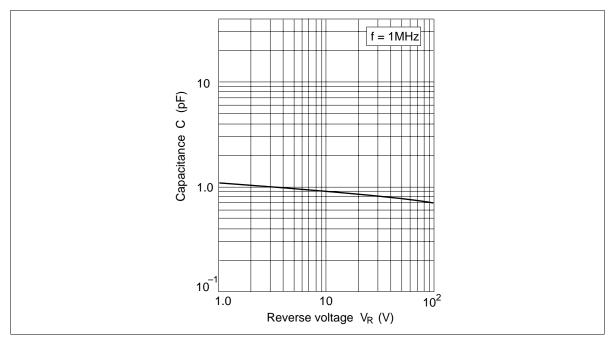
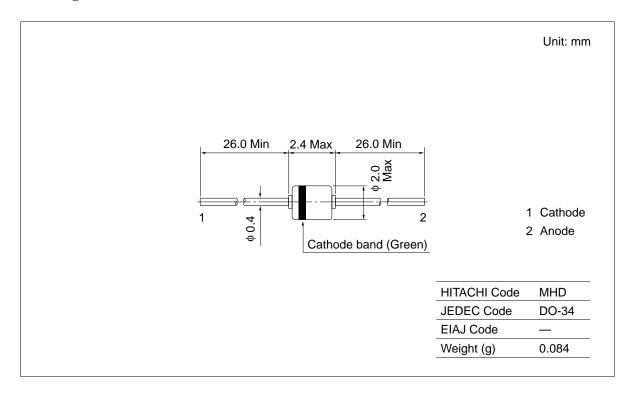


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions



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