

HSS81

Silicon Epitaxial Planar Diode for High Voltage Switching

REJ03G0568-0300
(Previous: ADE-208-175B)
Rev.3.00
Mar 22, 2005

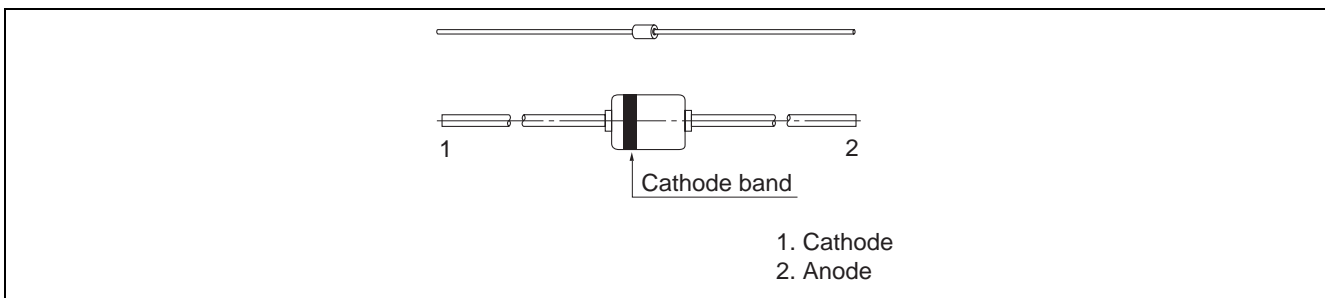
Features

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

Ordering Information

Type No.	Cathode band	Package Name	Package Code (Previous Code)
HSS81	Green	MHD	GRZZ0002ZC-A (MHD)

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	V_{RM}^{*1}	200	V
Reverse voltage	V_R	150	V
Average rectified current	I_O	150	mA
Peak forward current	I_{FM}	625	mA
Non-Repetitive peak forward surge current	I_{FSM}^{*2}	1	A
Power dissipation	P_d	400	mW
Junction temperature	T_j	200	°C
Storage temperature	T_{stg}	-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°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	200	nA	$V_R = 150\text{ V}$
	I_{R2}	—	—	100	μA	$V_R = 200\text{ V}$
Forward voltage	V_F	—	—	1.0	V	$I_F = 100\text{ mA}$
Capacitance	C	—	1.5	—	pF	$V_R = 0\text{ V}, f = 1\text{ MHz}$
Reverse recovery time	t_{rr}	—	—	100	ns	$I_F = I_R = 30\text{ mA}, I_{rr} = 3\text{ mA}, R_L = 100\ \Omega$

Main Characteristic

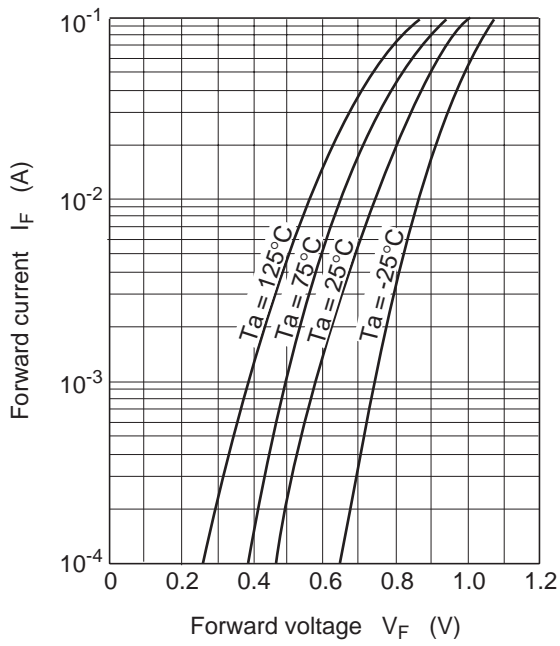


Fig.1 Forward current vs. Forward voltage

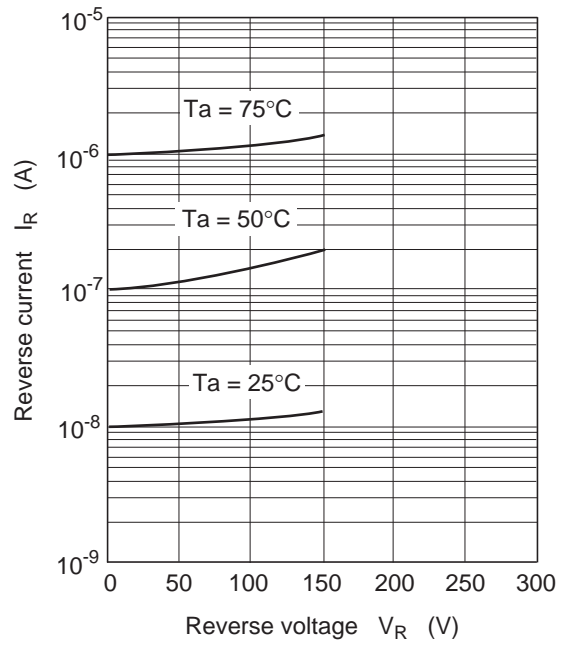


Fig.2 Reverse current vs. Reverse voltage

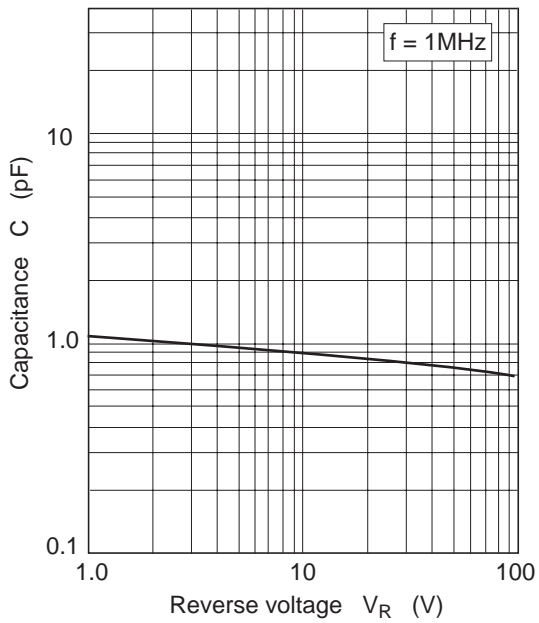
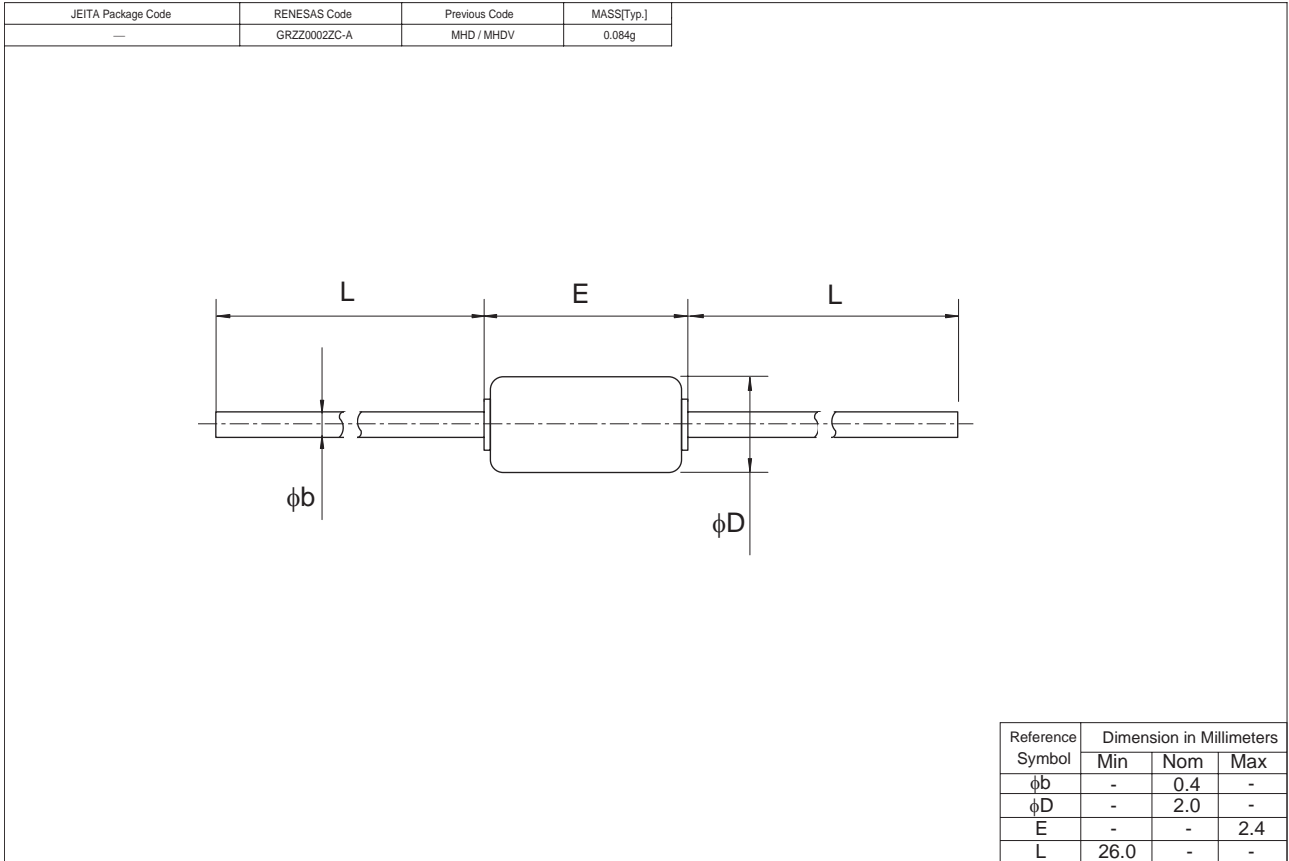


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions



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