

HSS81

Silicon Epitaxial Planar Diode for High Voltage Switching

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

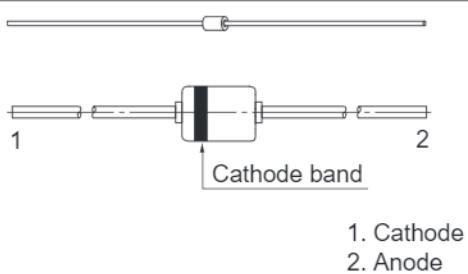
Features

- High reverse voltage. ($V_R = 150$ 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 V
	I _{R2}	—	—	100	μA	V _R = 200 V
Forward voltage	V _F	—	—	1.0	V	I _F = 100 mA
Capacitance	C	—	1.5	—	pF	V _R = 0 V, f = 1 MHz
Reverse recovery time	t _{rr}	—	—	100	ns	I _F = I _R = 30 mA, I _{rr} = 3 mA, R _L = 100 Ω

Main Characteristic

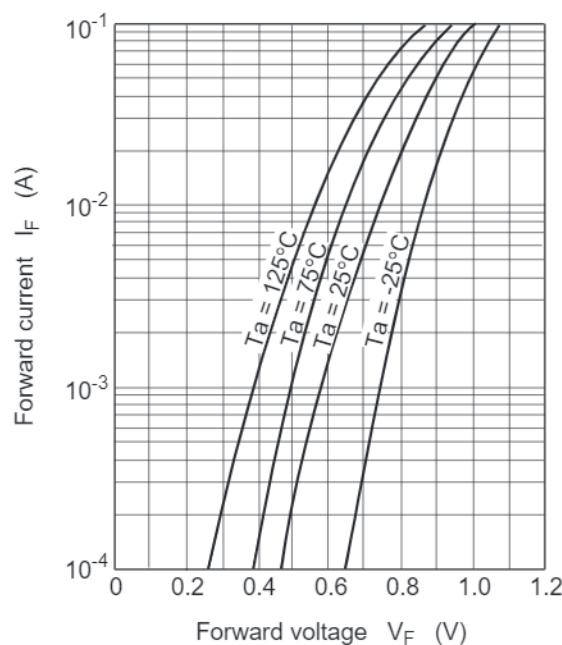


Fig.1 Forward current vs. Forward voltage

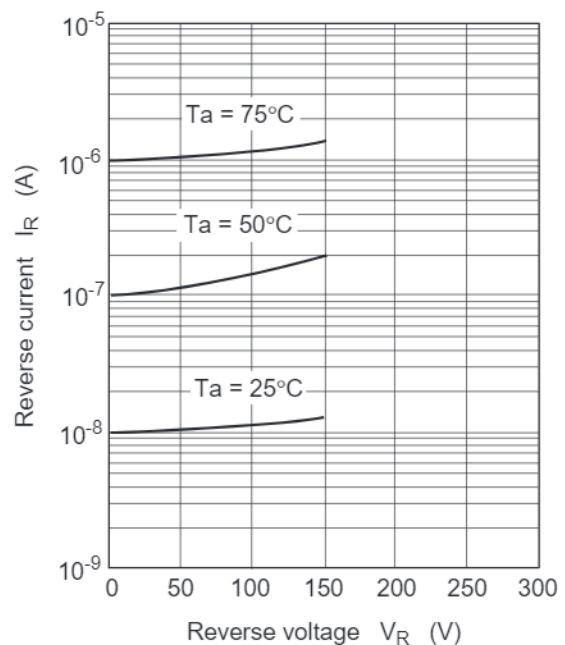


Fig.2 Reverse current vs. Reverse voltage

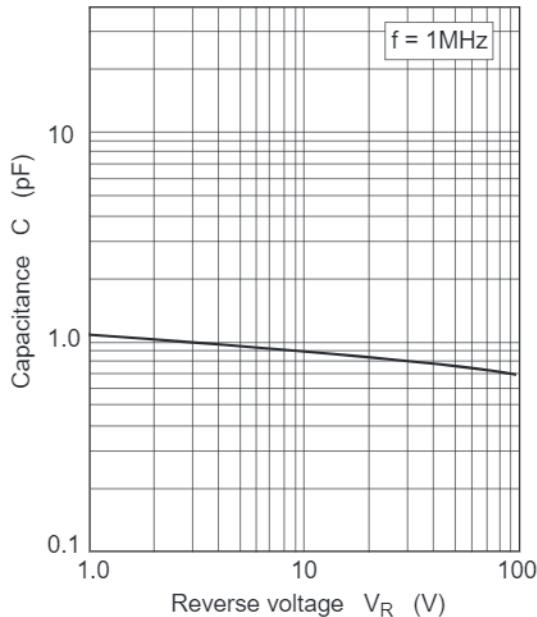


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions

JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
—	GRZZ0002ZC-A	MHD / MDHV	0.084g

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
phi b	-	0.4	-
phi D	-	2.0	-
E	-	-	2.4
L	26.0	-	-

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