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# **HSS81**

# Silicon Epitaxial Planar Diode for High Voltage Switching

REJ03G0568-0300

(Previous: ADE-208-175B)

Rev.3.00 Mar 22, 2005

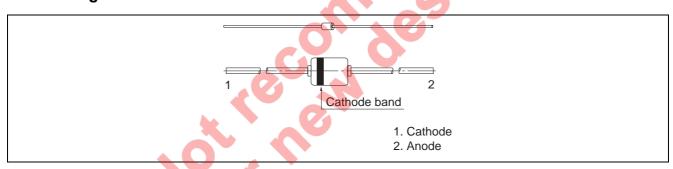
### **Features**

- 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**

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

Item	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub> * <sup>1</sup>	200	V
Reverse voltage	V <sub>R</sub>	150	V
Average rectified current	I <sub>0</sub>	150	mA
Peak forward current	I <sub>FM</sub>	625	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> * <sup>2</sup>	1	Α
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.

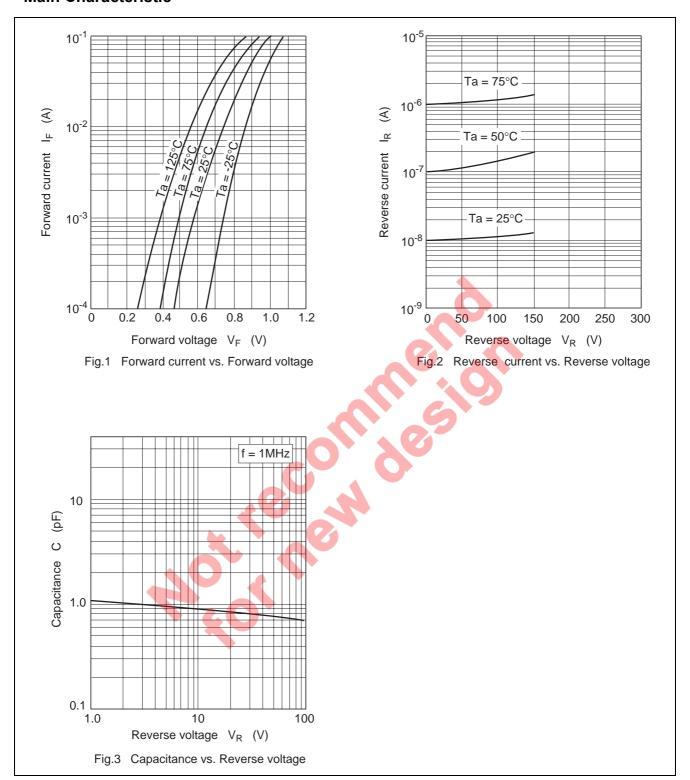
2. Within 1s forward surge current.

### **Electrical Characteristics**

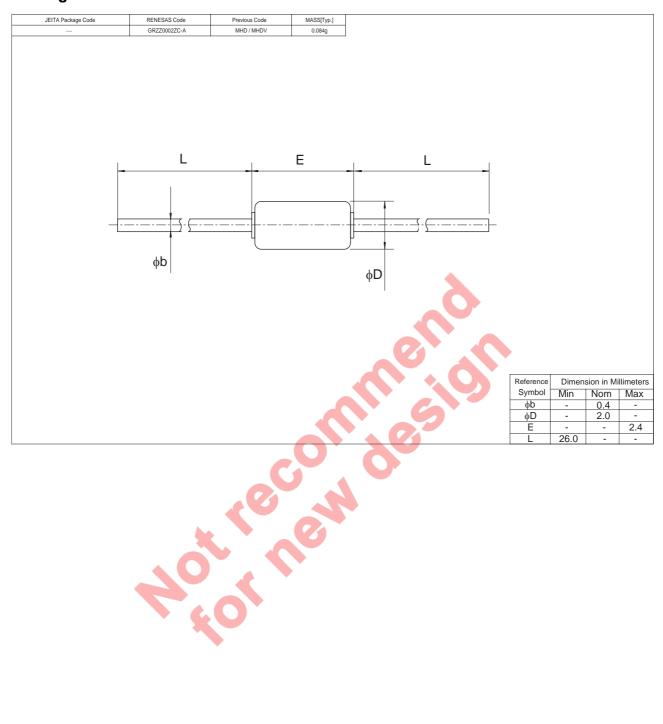
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>			200	nA	V <sub>R</sub> = 150 V
	I <sub>R2</sub>	_	_	100	μΑ	V <sub>R</sub> = 200 V
Forward voltage	V <sub>F</sub>	_	_	1.0	V	I <sub>F</sub> = 100 mA
Capacitance	С		1.5	_	pF	$V_R = 0 V$ , $f = 1 MHz$
Reverse recovery time	t <sub>rr</sub>			100	ns	$I_F = I_R = 30$ mA, Irr = 3 mA, $R_L = 100$ Ω
Active Collides						

### **Main Characteristic**



### **Package Dimensions**



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- (ii) use of nontrammaple material of (iii) prevention against any maintention or misnap.

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