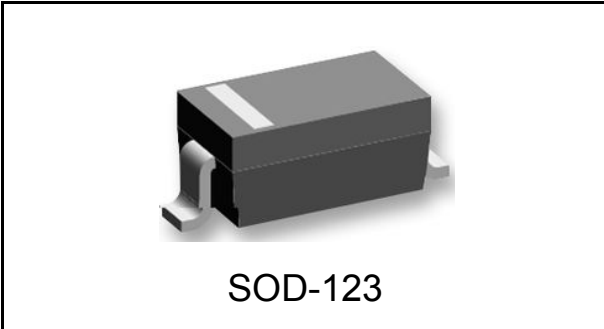


Features

- Low profile space
- Ideal for automated placement
- Glass passivated chip junctions
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- Case: JEDEC SOD-123 molded plastic
- Terminals: Solder plated, solderable per
J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end



Major Ratings and Characteristics

$I_{F(AV)}$	0.5 A
V_{RRM}	20V to 200V
I_{FSM}	20 A
V_F	0.5V, 0.55V, 0.7V, 0.85V, 0.95V
T_j (max.)	125 °C

■ Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$, unless otherwise noted)

Items	Symbol	DSK 0.52	DSK 0.53	DSK 0.54	DSK 0.55	DSK 0.56	DSK 0.58	DSK 0.510	DSK 0.515	DSK 0.520	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	
Maximum average forward rectified current	$I_{F(AV)}$	0.5									A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	20									
Thermal resistance from junction to ambient	$R_{\theta JA}$	20									°C/W
Operating junction and storage temperature range	T_j, T_{STG}	-65 to +125									°C

■ Electrical Characteristics ($T_A=25^\circ\text{C}$, unless otherwise noted)

Items	Test conditions	Symbol	DSK 0.52	DSK 0.53~0.54	DSK 0.55~0.56	DSK 0.58~0.510	DSK 0.515~0.520	UNIT	
Instantaneous forward It	$I_F=0.5A^{(1)}$	V_F	0.50	0.55	0.70	0.85	0.95	V	
Reverse current	$V_R=V_{DC}$	I_R	$T_j=25^\circ\text{C}$				1.0		μA
			$T_j=100^\circ\text{C}$				10.0		

Note 1: Pulse test: 300μs pulse width, 1% duty cycle.

Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

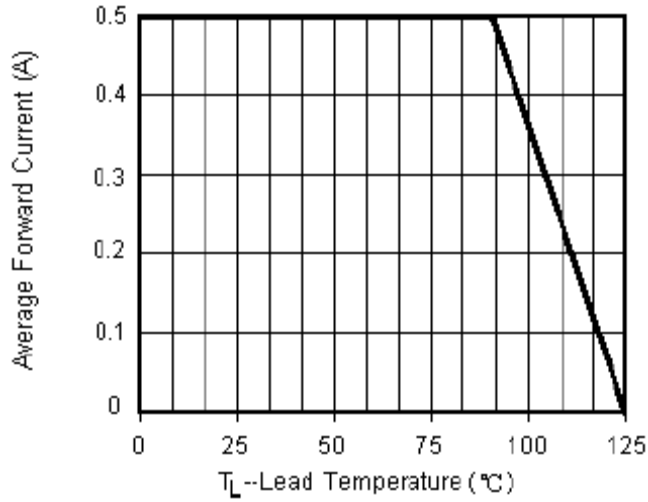


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

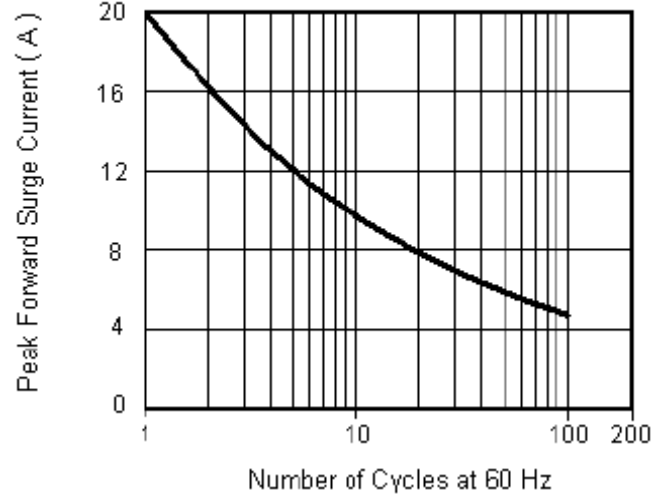


Fig.3 Typical Instantaneous Forward Characteristics

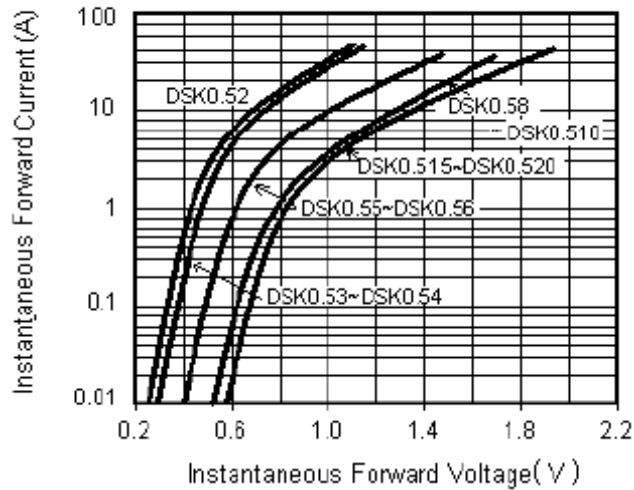
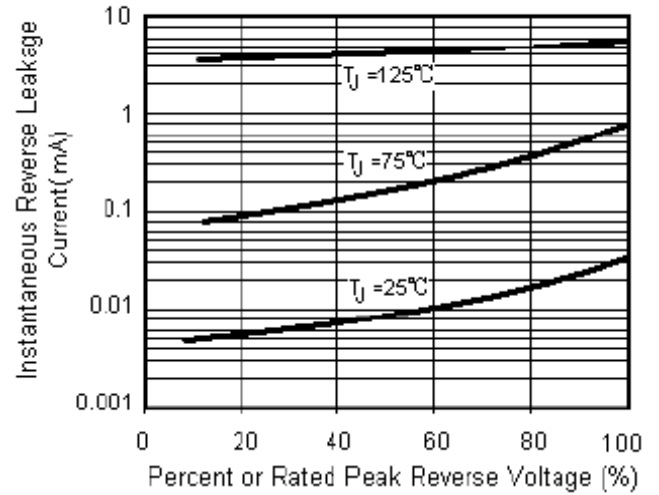
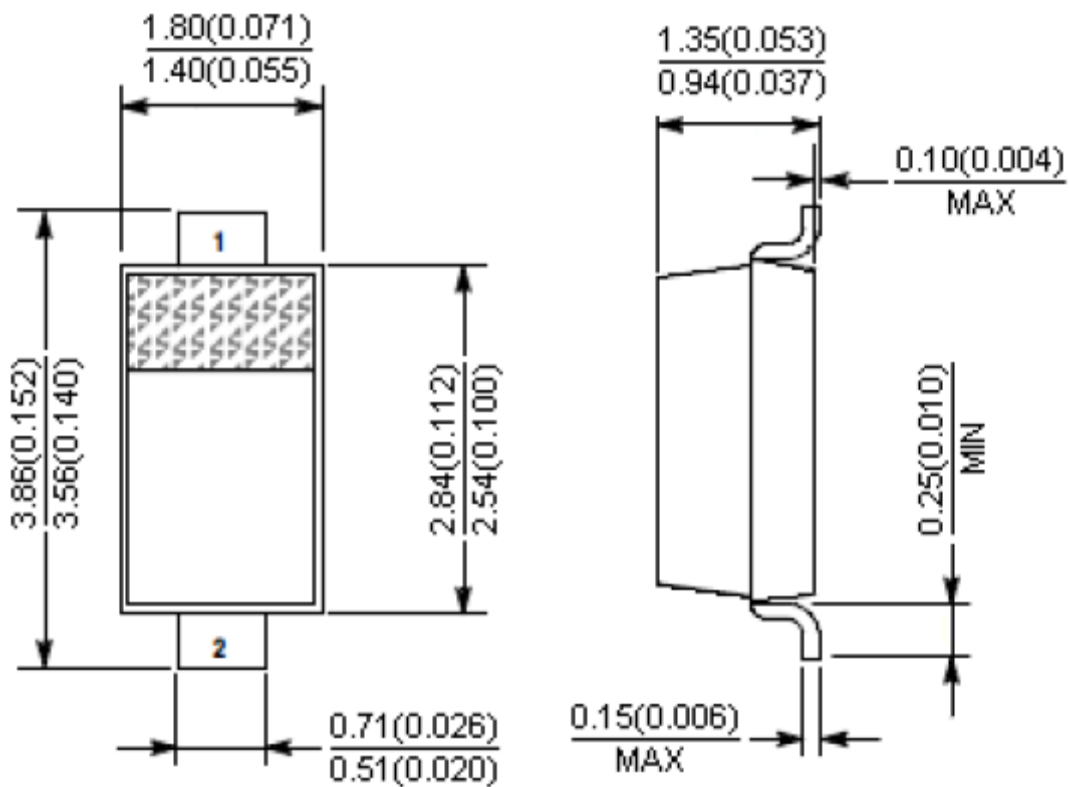


Fig.4 Typical Reverse Leakage Characteristics



Package Outline

SOD-123



Dimensions in millimeters and (inches)



经中华人民共和国工商行政管理总局商标局批准
HAOHAI、HHE 图案、字母、均为我公司正式注册商标，仿冒、盗用均属侵权，违法必究！

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