



Major Ratings and Characteristics

$I_{F(AV)}$	1.0 A
V_{RRM}	100 V
I_{FSM}	25 A
V_F	0.85V
$T_j \text{ max.}$	150 °C

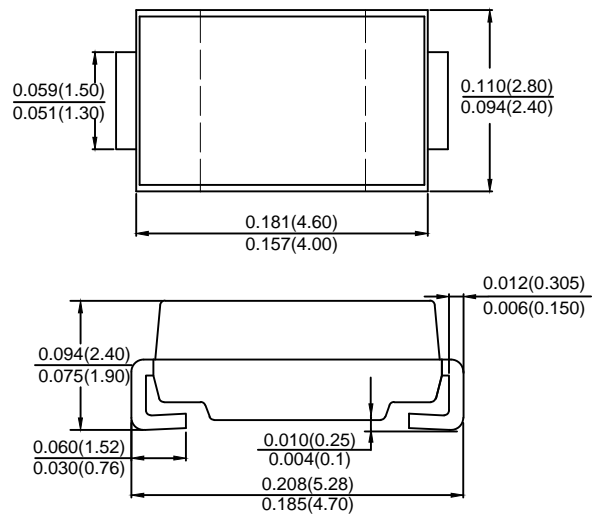
Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High 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 DO-214AC (SMA) molded plastic
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

SMA/DO-214AC



Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)

	Symbol	SK110	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	100	V	
Maximum RMS voltage	V_{RMS}	70	V	
Maximum DC blocking voltage	V_{DC}	100	V	
Maximum average forward rectified current	$I_{F(AV)}$	1	A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	25	A	
Maximum instantaneous forward voltage at 1.0A	V_F	0.85	V	
Maximum DC reverse current at Rated DC blocking voltage	I_R	$T_A = 25\text{ °C}$	0.5	mA
		$T_A = 100\text{ °C}$	5	mA
Thermal resistance from junction to ambient	$R_{\theta JA}$	88	°C/W	
Operating junction and storage temperature range	T_J, T_{STG}	- 55 to +150	°C	





Characteristic Curves (T = 25 °C unless otherwise noted)

Fig.1 Forward Current Derating Curve

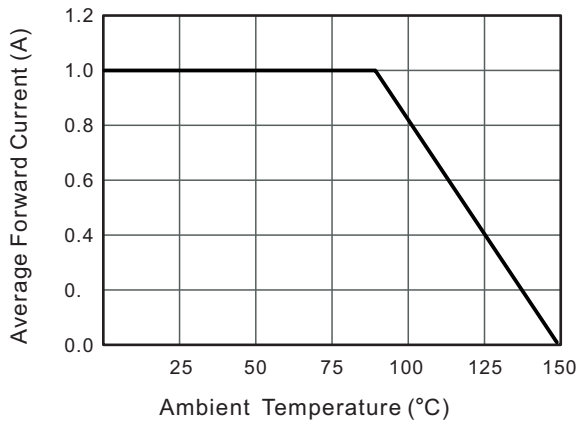


Fig.2 Typical Reverse Characteristics

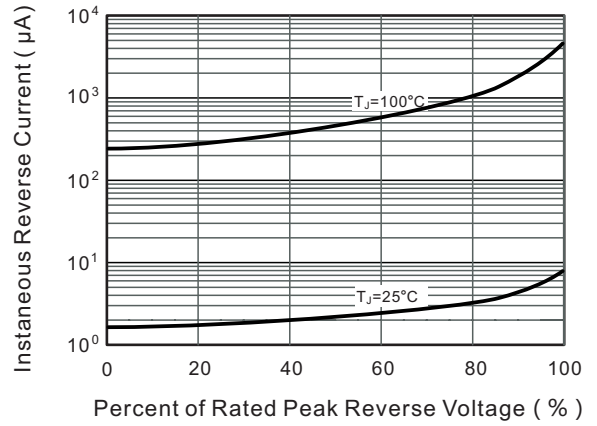


Fig.3 Typical Forward Characteristic

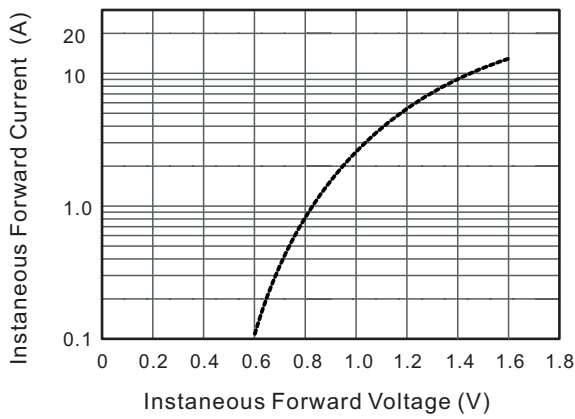
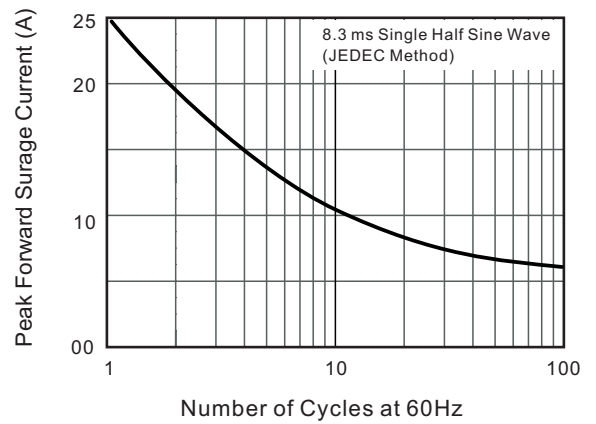


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



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