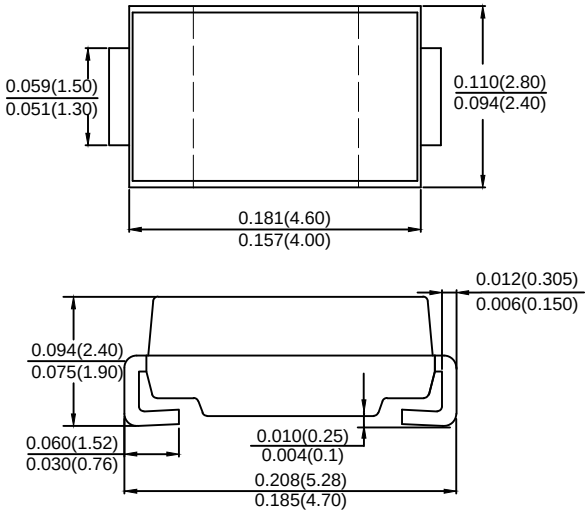
SK110

Surface Mount Schottky Rectifiers

Major Ratings and Characteristics

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

SMA/DO-214AC



Dimensions in inches and (millimeters)

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 temperatrue soldering：
  260℃/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

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 forwad voltage at 1.0A	V_F	0.85	V
Maximum DC reverse current T_A = 25 ℃	I_R	0.5	mA
at Rated DC blocking voltage T_A = 100℃		5	mA
Thermal resistance from junction to ambient	$R_{\theta JA}$	88	℃/ W
Operating junction and storage temperature range	T_J, T_{STG}	– 55 to +150	℃

Characteristic Curves (T =25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

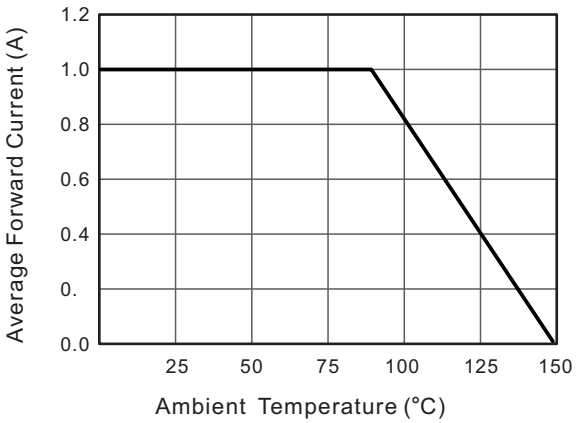


Fig.2 Typical Reverse Characteristics

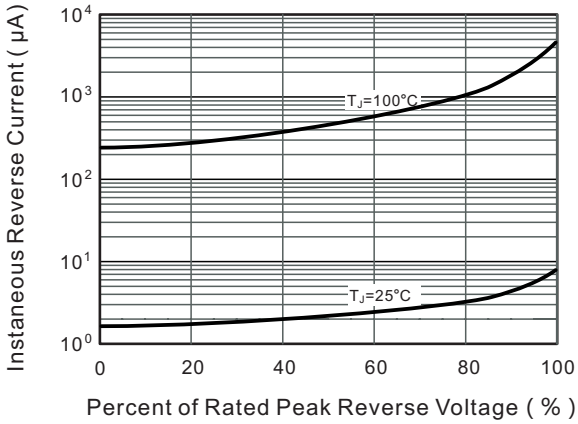


Fig.3 Typical Forward Characteristic

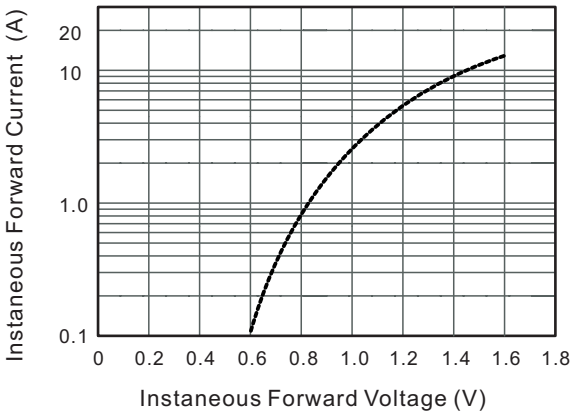


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current