



Major Ratings and Characteristics

$I_{F(AV)}$	1.0 A
V_{RRM}	20 V to 200 V
I_{FSM}	25 A
V_F	0.55V, 0.7V, 0.85V, 0.95V
$T_j \text{ max.}$	150 °C

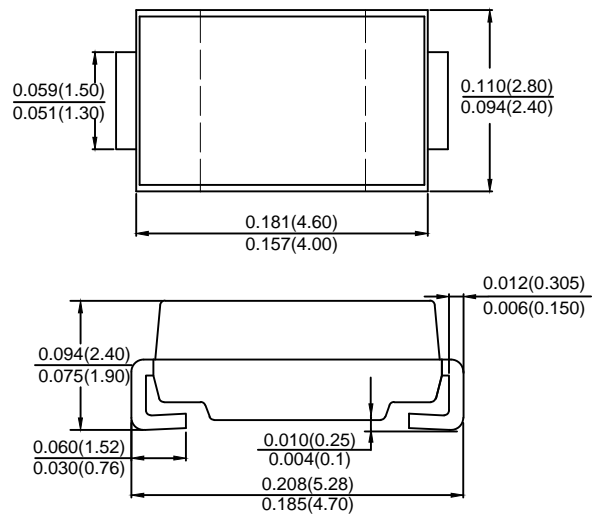
Features

- 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	SS12	SS14	SS16	SS18	SS110	SS1150	SS120	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	46	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	150	200	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	0.55	0.7	0.85	0.95				V
Maximum DC reverse current at Rated DC blocking voltage	I_R	0.5							mA
		5							mA
Voltage rate of change (rated VR)	dv/dt	10000							V/μs
Thermal resistance from junction to ambient	$R_{\theta JA}$	88							°C/W
Operating junction and storage temperature range	T_J, T_{STG}	- 65 to +150							°C





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

Fig.1 Forward Current Derating Curve

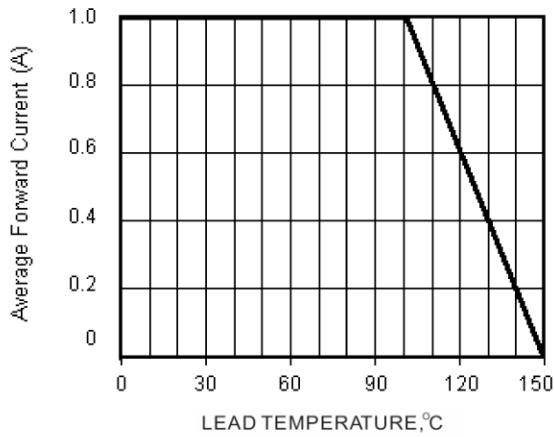


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

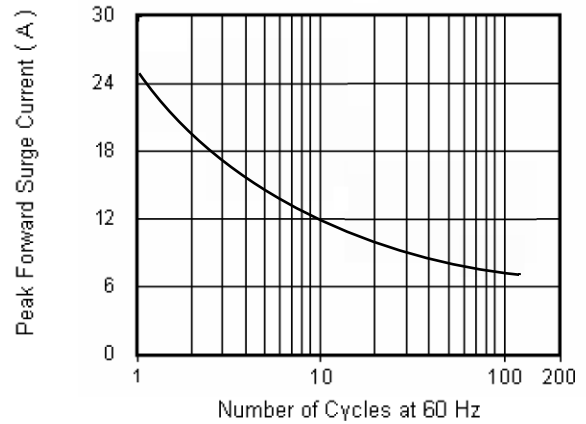


Fig.3 Typical Instantaneous Forward Characteristics

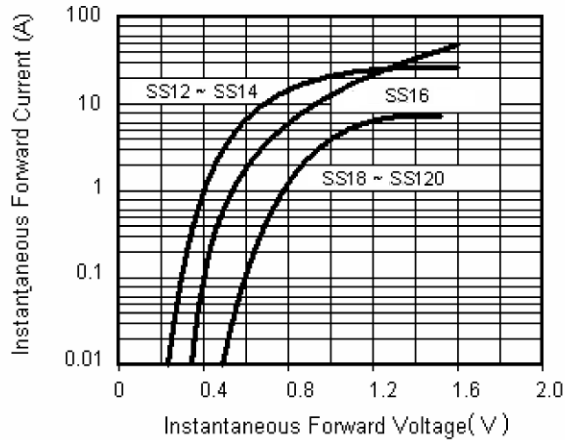


Fig.4 Typical Reverse Leakage Characteristics

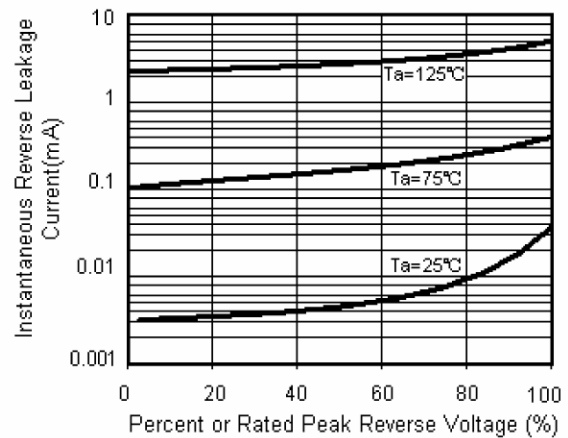
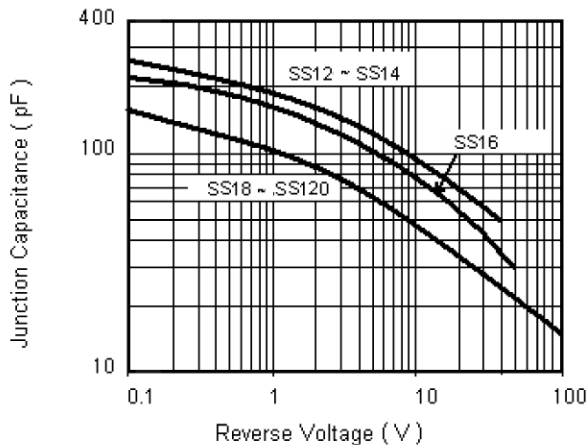


Fig.5 Typical Junction Capacitance



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