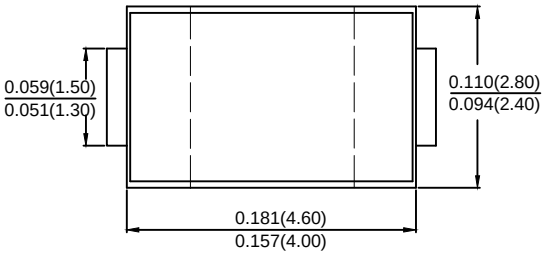
SS52~SS5200

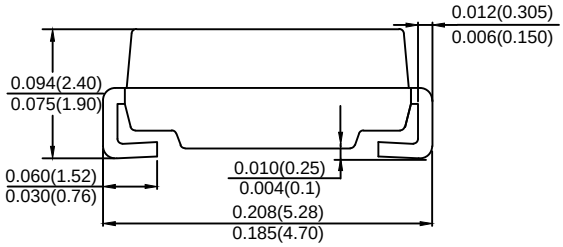
Surface Mount Schottky Rectifiers

Major Ratings and Characteristics

$I_{F(AV)}$	5.0 A
V_{RRM}	20 V to 100 V
I_{FSM}	150 A
V_F	0.55 V , 0.70 V, 0.85V,0.95V
T_j max.	125 °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 temperature 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

(T_A = 25 °C unless otherwise noted)

	Symbol	SS52	SS54	SS56	SS58	SS510	SS5150	SS5200	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	105	170	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	5							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	150							A
Maximum instantaneous forward voltage at 5.0A	V_F	0.55		0.70	0.85		0.95		V
Maximum DC reverse current T_A = 25 ℃	I_R	0.5							mA
at Rated DC blocking voltage T_A = 100℃		10					20		
Thermal resistance from junction to Lead	$R_{\theta JL}$	35							℃/ W
Operating junction and storage temperature range	T_J, T_{STG}	–65 to +125							℃

Note 1：Units mounted on P.C.B.5.0×5.0 mm (0.013 mm thick) land areas

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

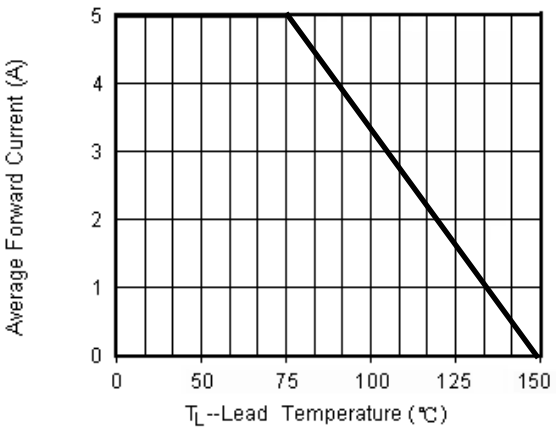


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

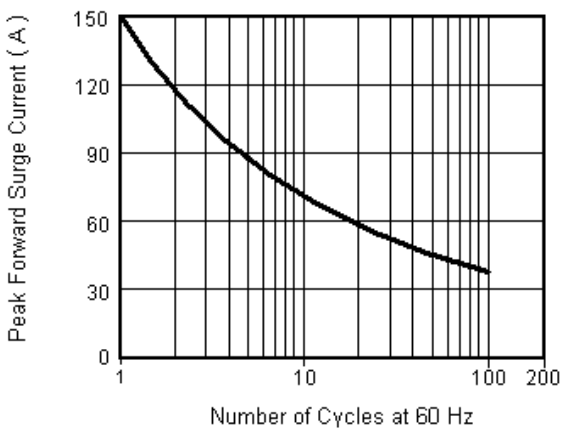


Fig.3 Typical Instantaneous Forward Characteristics

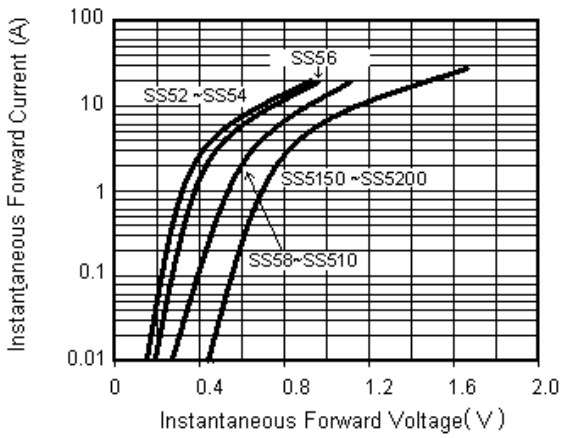


Fig.4 Typical Reverse Leakage Characteristics