

**SS54**

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
$T_j \text{ max.}$	125 °C

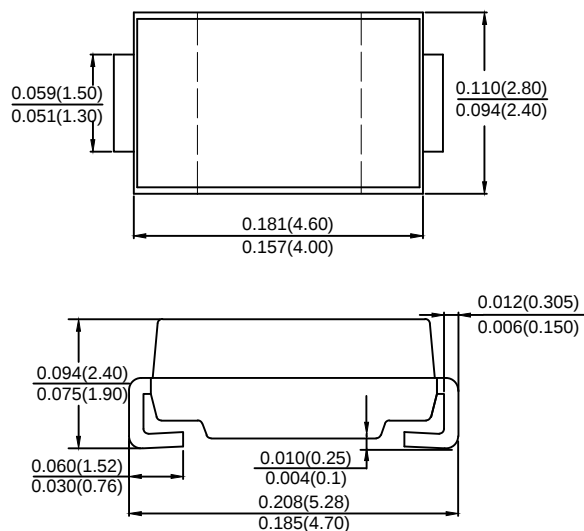
Features

- 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 Data

- **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

($T_A = 25\text{ °C}$ unless otherwise noted)

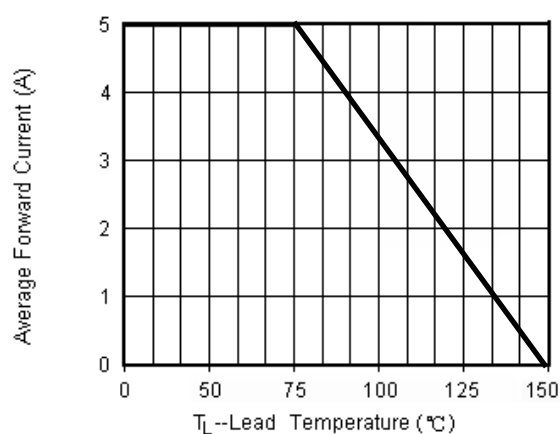
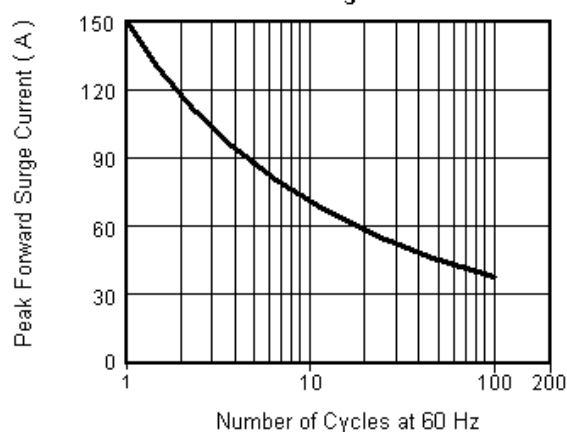
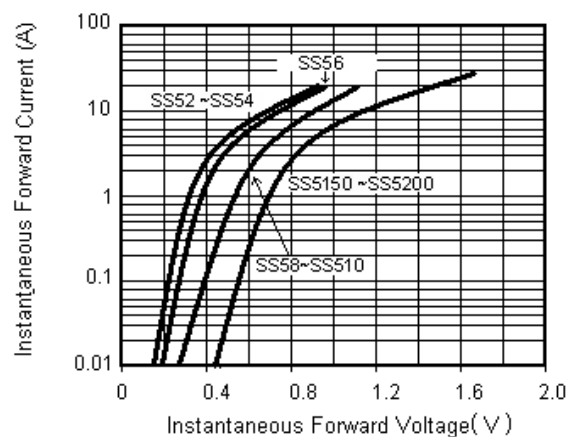
	Symbol	SS52	SS54	SS56	SS58	SS510	SS5150	SS5200	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	105	170	V
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	5							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 °C at Rated DC blocking voltage T _A = 100 °C	I _R	0.5							mA
		10					20		
Thermal resistance from junction to Lead	R _{θJL}	35							°C/ W
Operating junction and storage temperature range	T _J , T _{STG}	−65 to +125							°C

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

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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**