



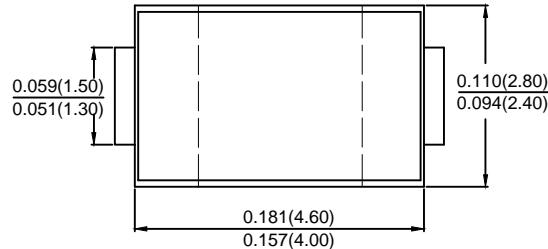
SS510

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)

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

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 °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

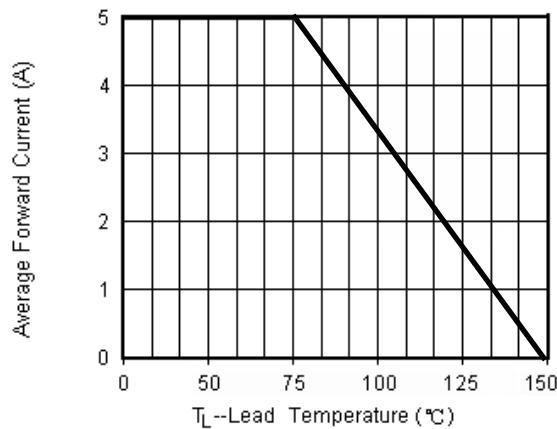


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

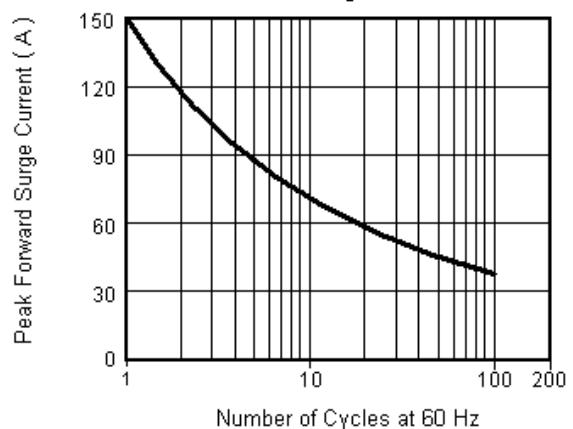


Fig.3 Typical Instantaneous Forward Characteristics

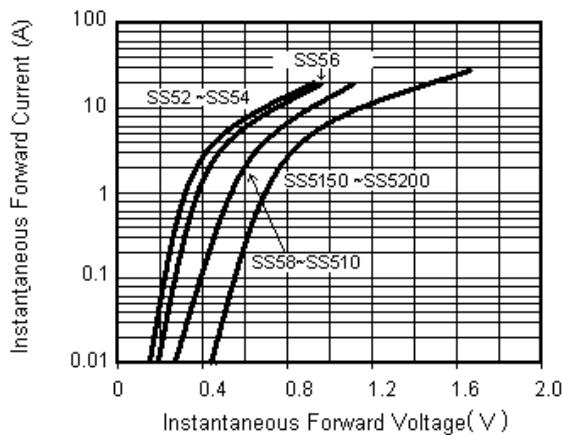


Fig.4 Typical Reverse Leakage Characteristics

