

SS12 - S100

Features

- Glass passivated junctions.
- High current capability, low V_F.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.



SMA/DO-214AC COLOR BAND DENOTES CATHODE

Schottky Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter		Value							
		12	13	14	15	16	18	19	100	1
V_{RRM}	Maximum Repetitive Reverse Voltage		30	40	50	60	80	90	100	V
I _{F(AV)}	Average Rectified Forward Current 1.0 .375 " lead length @ $T_A = 75^{\circ}$ C				А					
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave 40			Α						
T_{stg}	Storage Temperature Range -65 to +150			°C						
T _J	Operating Junction Temperature -65 to +125				°C					

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P_{D}	Power Dissipation	1.1	W
R _{eJA}	Thermal Resistance, Junction to Ambient *	88	°C/W

^{*}Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics $T_A = 25^{\circ}\text{C}$ unless otherwise noted

Symbol Parameter		Device								Units
			13	14	15	16	18	19	100	
V_{F}	Forward Voltage @ 1.0 A	500			700		850			mV
I _R	Reverse Current @ rated V _R T _A = 25°C T _A = 100°C	0.2 10				mA mA				

Schottky Rectifiers

(continued)

Typical Characteristics

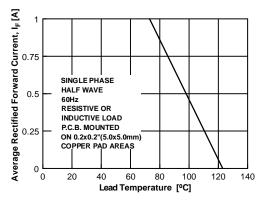


Figure 1. Forward Current Derating Curve

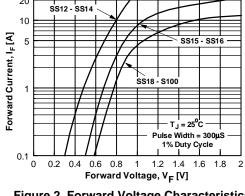


Figure 2. Forward Voltage Characteristics

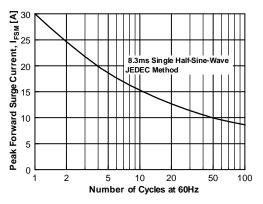


Figure 3. Non-Repetitive Surge Current

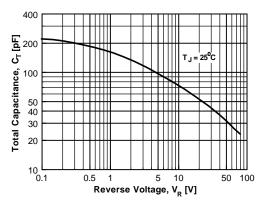


Figure 4. Total Capacitance

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