

SS14

DIODO SCHOTTKY 1A 40V SMD

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	
V_{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
I _{F(AV)}	Average Rectified Forward Current .375 " lead length @ T _A = 75°C	1.0							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
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient *	88	°C/W

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

$\begin{tabular}{ll} \textbf{Electrical Characteristics} & \textbf{T}_{A} = 25^{\circ}\text{C unless otherwise noted} \\ \end{tabular}$

Symbol	Parameter		Units							
		12	13	14	15	16	18	19	100	1
V_{F}	Forward Voltage @ 1.0 A	500			70	00	850			mV
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	0.2 10							mA mA	

Schottky Rectifiers

(continued)

Typical Characteristics

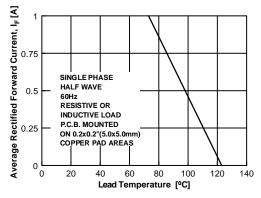


Figure 1. Forward Current Derating Curve

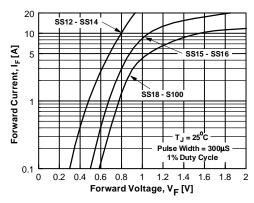


Figure 2. Forward Voltage Characteristics

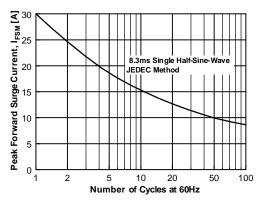


Figure 3. Non-Repetitive Surge Current

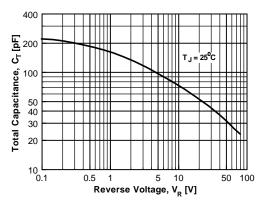


Figure 4. Total Capacitance