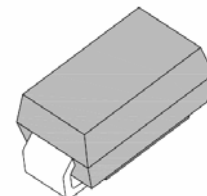


1.0A Surface Mount Schottky Rectifier

Features

- Low Profile in SMA Package
- High current capability, low forward voltage drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering guaranteed: 250° C/10 seconds, at terminals
- RoHS compliant



**SMA
(DO-214AC)**



Mechanical Data

Case:	JEDEC DO-214AC, Molded plastic body
Terminals:	Solder plated, solderable per MIL-STD-750D, Method 2026
Polarity	Color band denotes the cathode end
Weight:	0.002 ounce, 0.064 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbols	Description	SS 12	SS 13	SS 14	SS 15	SS 16	SS 19	SS 110	Unit	Conditions
VRMS	Maximum RMS voltage	14	21	28	35	42	63	70	V	
VRRM	Maximum repetitive peak reverse voltage	20	30	40	50	60	90	100	V	
VDC	Maximum DC blocking voltage	20	30	40	50	60	90	100	V	
I(AV)	Maximum average forward rectified current (FIG.1)	1.0							A	
IFSM	Peak forward surge current (JEDEC Method)	40							A	8.3ms single half sine-wave superimposed on rated load
VF	Maximum instantaneous forward voltage at 3.0A	0.50			0.75		0.85		V	I(AV)=1.0A
IR	Maximum DC reverse current at rated DC blocking voltage	0.5							mA	Ta=25 °C
		20								Ta=100 °C
RθJA RθJL	Maximum thermal resistance, Junction to Ambient	50							° C/W	
		28								
CJ	Typical Junction Capacitance (NOTE)	110							pf	VR=4V, f=1MHz
TJ	Operating junction temperature range	-50 to +125			-50 to +150				° C	
TSTG	Storage Temperature Range	-65 to +150							° C	

1.0A Surface Mount Schottky Rectifier

SS12 - SS110

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

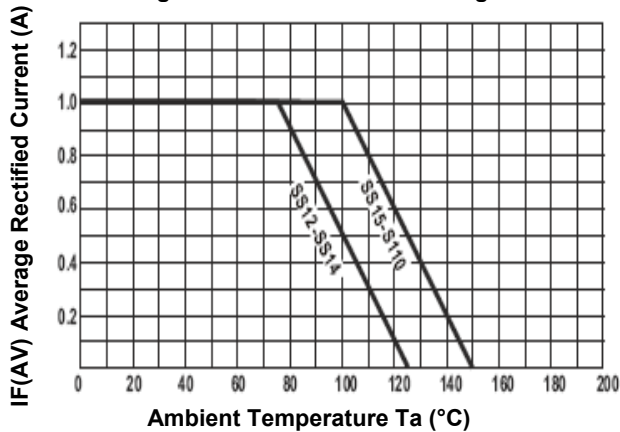


Fig.2- Max. Non-Repetitive Forward Surge Current

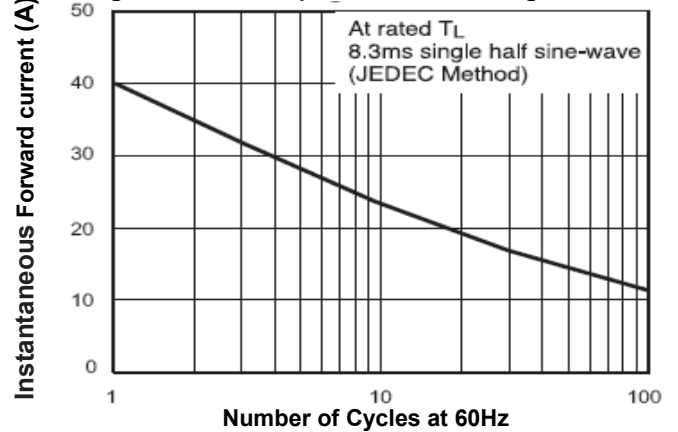


Fig.3- Typical Forward Characteristics

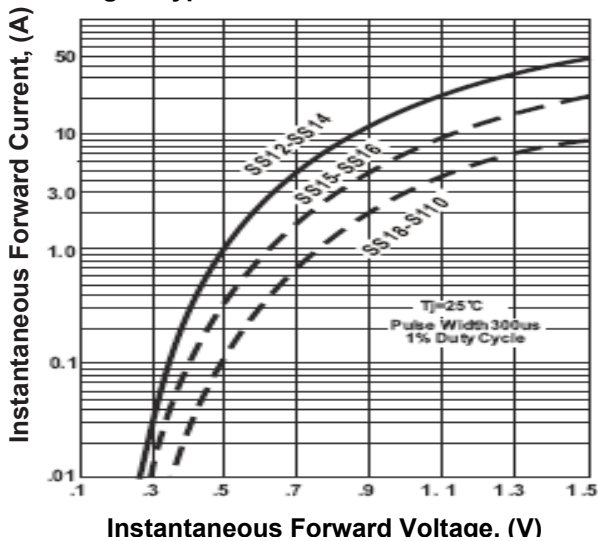


Fig.4- Typical Reverse Characteristics

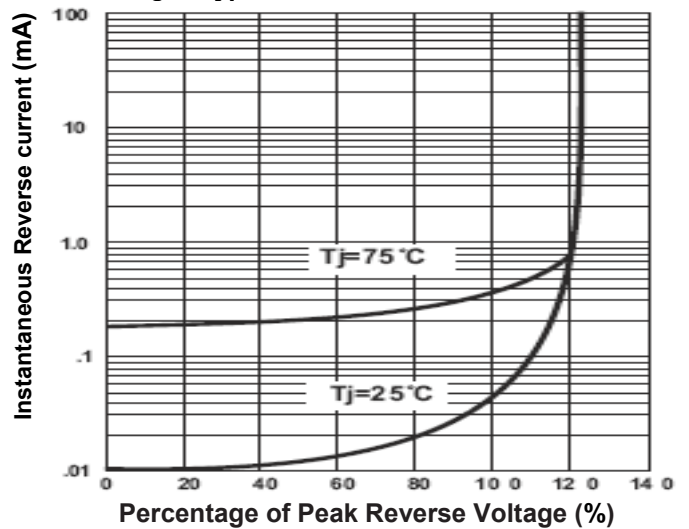
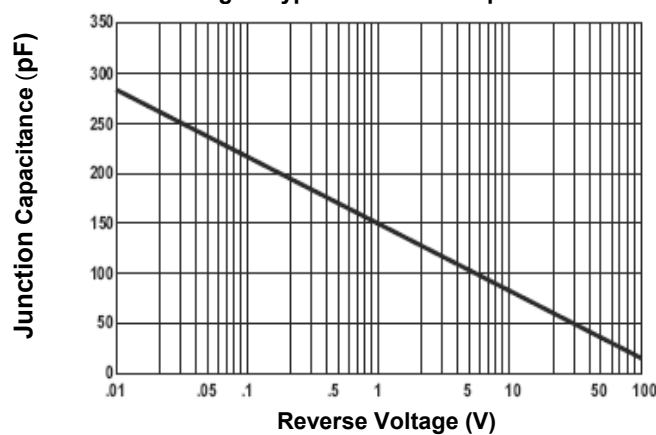


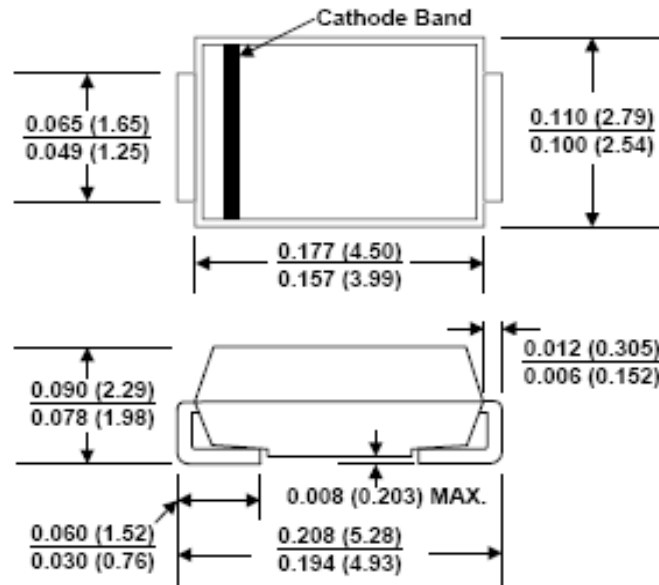
Fig.5- Typical Junction Capacitance



1.0A Surface Mount Schottky Rectifier

SS12 - SS110

Dimensions in inches (mm)



SMA
DO214AC

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Rev. B/AH 2008-02-18