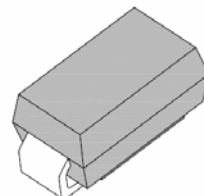


### 1.0A Surface Mount Schottky Rectifier

#### 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

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

#### Maximum Ratings & Electrical Characteristics (T<sub>Ambient</sub>=25°C unless noted otherwise)

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

# 1.0A Surface Mount Schottky Rectifier

SS12 - SS110

## Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

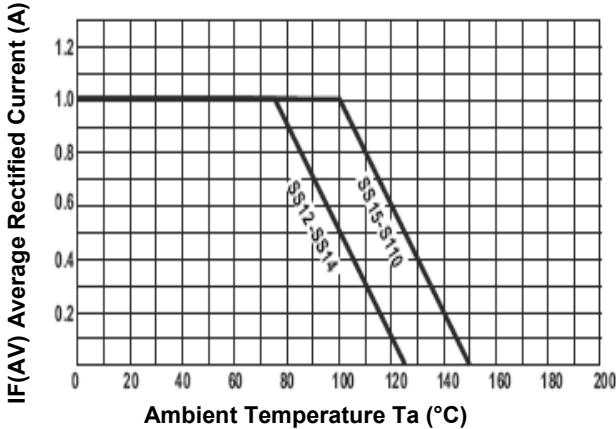


Fig.2- Max. Non-Repetitive Forward Surge Current

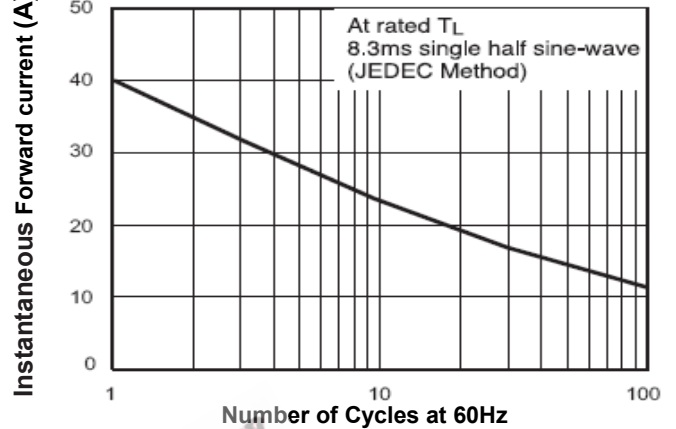


Fig.3- Typical Forward Characteristics

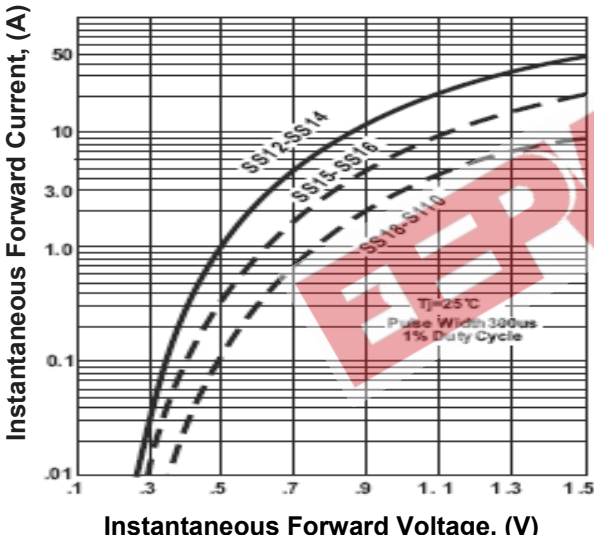


Fig.4- Typical Reverse Characteristics

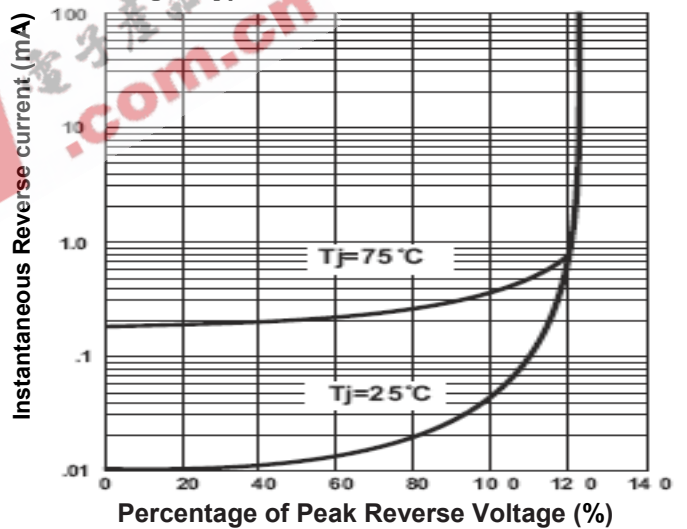
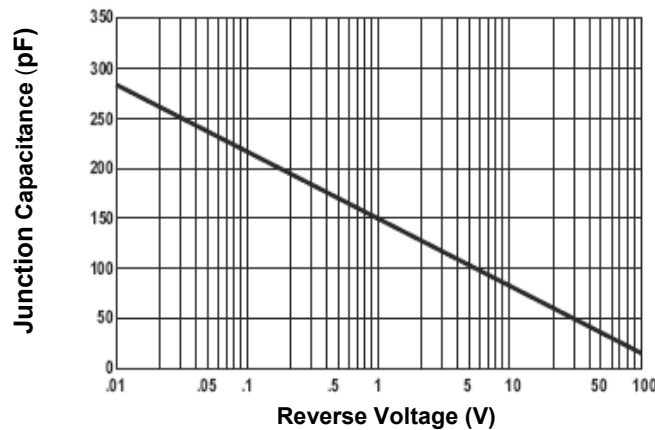


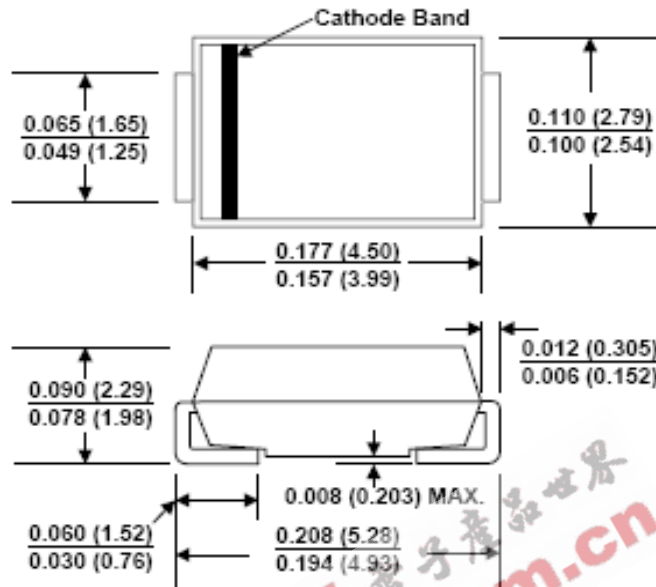
Fig.5- Typical Junction Capacitance



# 1.0A Surface Mount Schottky Rectifier

SS12 - SS110

## Dimensions in inches (mm)



SMA  
DO214AC

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