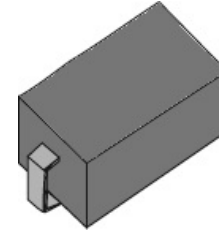


## Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:  
260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



SMA-W



## Mechanical Data

- Case: SMA-W Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

## Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

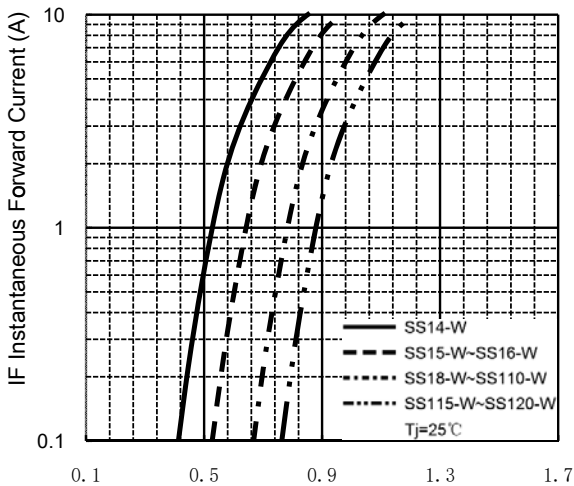
Parameter	Symbols	SS14 -W	SS15 -W	SS16 -W	SS18 -W	SS110 -W	SS115 -W	SS120 -W	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	50	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	40	50	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	30							A
@ $I_F=1.0A$ Maximum forward voltage	$V_F$	0.55	0.70	0.85		0.95		V	
@ $V_{DC}$ Maximum reverse current	$I_R$	500			100				$\mu A$
$T_A=25^{\circ}C$		20			10				mA
$T_A=100^{\circ}C$									
Typical thermal resistance (Note 1)	$R_{\theta JA}$	88							$^{\circ}C/W$
VR=4.0V,f=1MHz Type junction capacitance	$C_j$	130							pF
Operating junction and storage temperature rang	$T_j, T_{STG}$	-55 --- +125			-55 --- +150				$^{\circ}C$

Note

- 1) Thermal resistance from junction to ambient, PCB mounted.

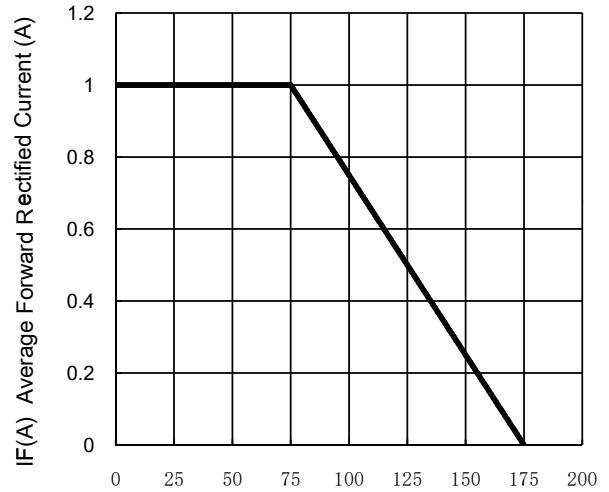
## Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



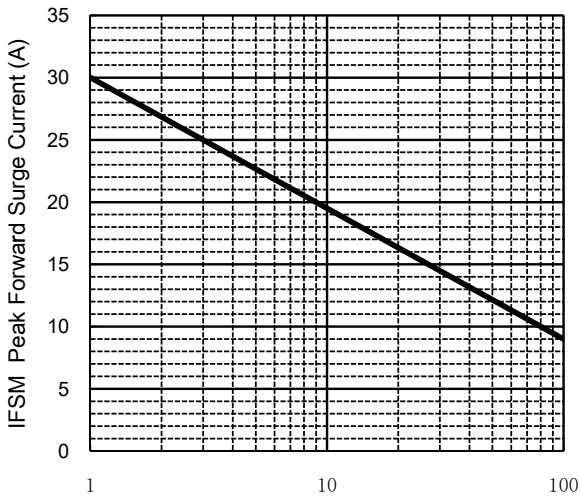
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



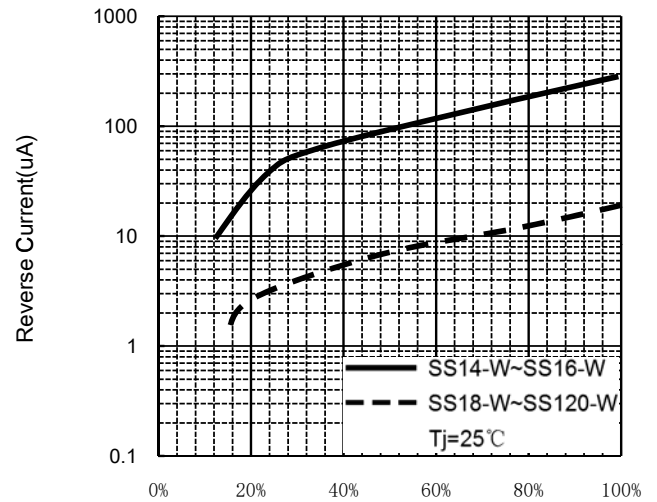
Tamb, ambient temperature (°C)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



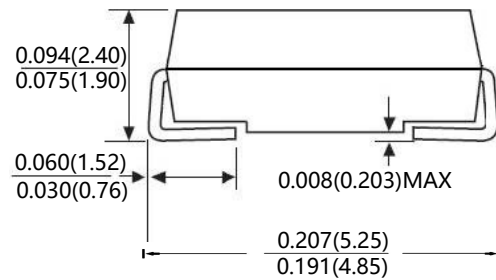
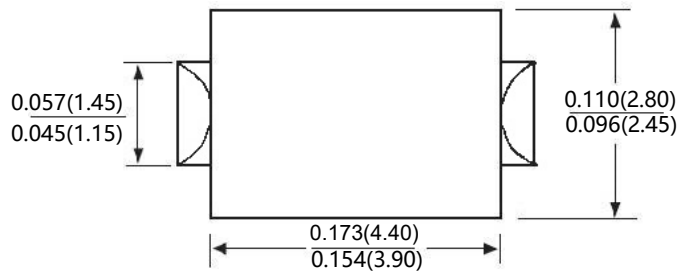
Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %

## Package Outline



Unit: inch (mm)

## Package Information

Qty: 5,000/Tape and reel