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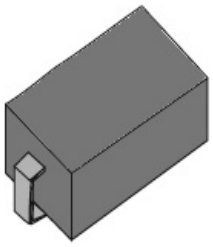
SS12-W THRU SS120-W

Surface Mounted Schottky Barrier Rectifiers

Reverse Voltage 20 ~ 200 V
Forward Current 1.0 A

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260℃/ 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℃ ambient temperature unless otherwise specified.

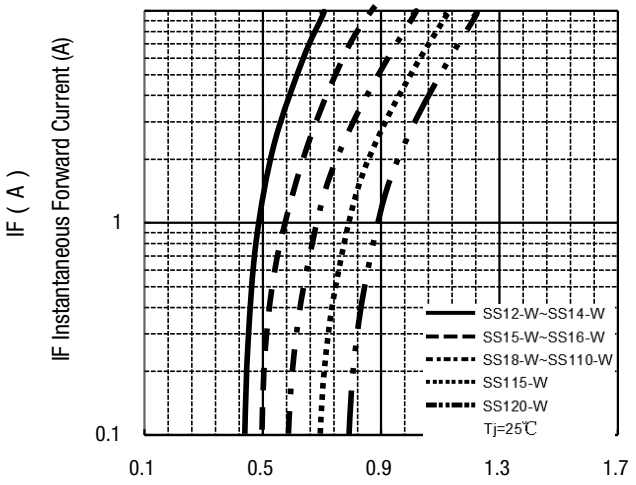
Parameter	Symbols	SS12 -W	SS13 -W	SS14 -W	SS15 -W	SS16 -W	SS18 -W	SS110 -W	SS115 -W	SS120 -W	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	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
@IF=1.0A Maximum forward voltage	V_F	0.55			0.70		0.85		0.92	0.95	V
@V_{DC} TA= 25℃ Maximum reverse current	I_R	500					100				μA
TA= 100℃		20					10				mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	85									℃/W
VR=4.0V,f=1MHz Type junction capacitance	C_J	90									pF
Operating junction temperature rang	T_J	-55 --- +125					-55 --- +150				℃
Storage temperature rang	T_{STG}	-55 --- +150									℃

Note:

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

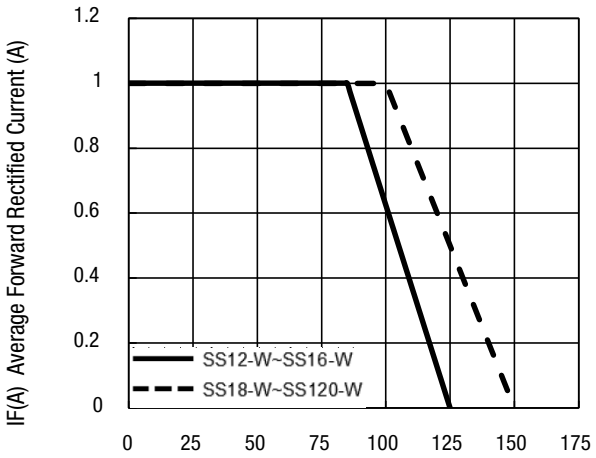
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



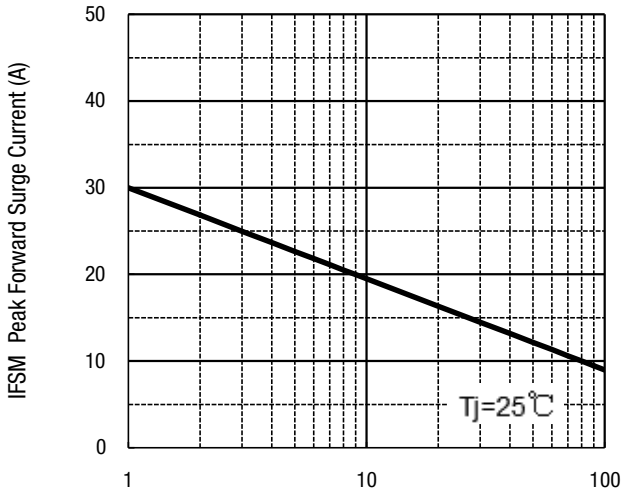
V_F Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



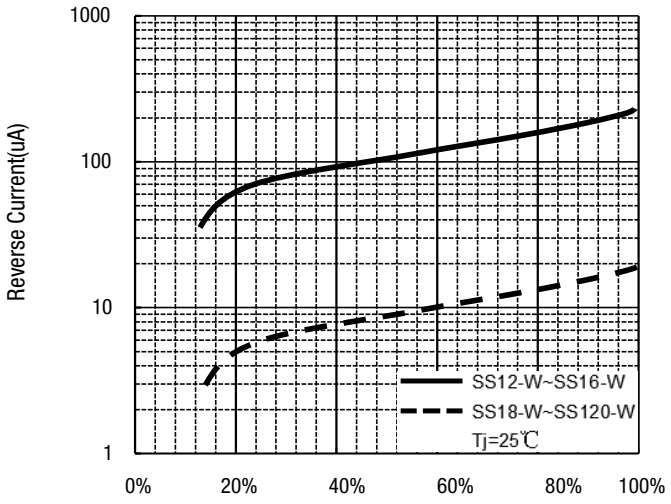
T_C, Case temperature (°C)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



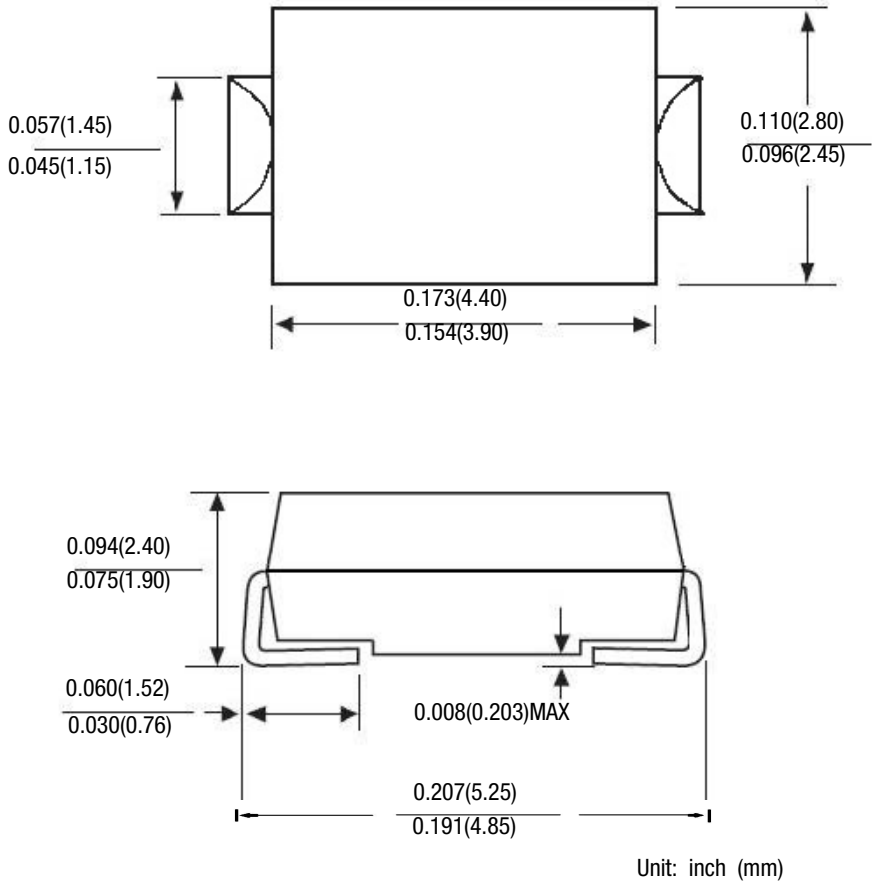
Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %

Package Outline



Unit: inch (mm)

Package Information

Qty：5,000/Tape and reel