

# SS32F-T thru SS320F-T

Reverse Voltage 20 ~ 200 V

## Automotive Surface Mounted Schottky Barrier Rectifiers

PROSEMI offers AEC-Q101 qualified Schottky Barrier Rectifiers is specially designed to protect sensitive electronic devices from lightning and other transient voltage induced voltage transient events.



### 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



SMAF

### Mechanical Data

- Case: DO-214AA Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free
- System: Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)

### Maximum Ratings & Characteristics Ratings at 25 °C ambient temperature unless otherwise specified.

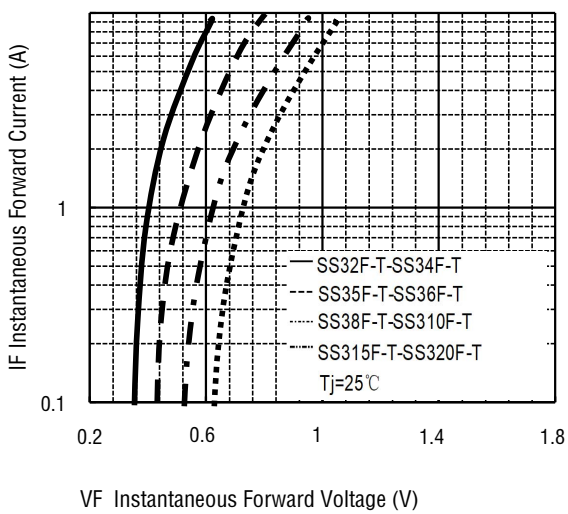
Parameter	Symbols	SS32 F-T	SS33 F-T	SS34 F-T	SS35 F-T	SS36 F-T	SS38 F-T	SS310 F-T	SS315 F-T	SS320 F-T	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0									A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	100									A
@ $I_F=3.0A$	$V_F$	0.55		0.70		0.85		0.95			V
Maximum forward voltage											
@ $V_{DC}$	$I_R$	0.5									mA
Maximum reverse current		20									
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55									°C/W
	$R_{\theta JL}$	17									
VR=4.0V, f=1MHz	$C_J$	160									pF
Type junction capacitance											
Operating junction	$T_J$	-55 --- +125					-55 --- +150				°C
Storage temperature rang	$T_{STG}$	-55 --- +150									°C

Note:

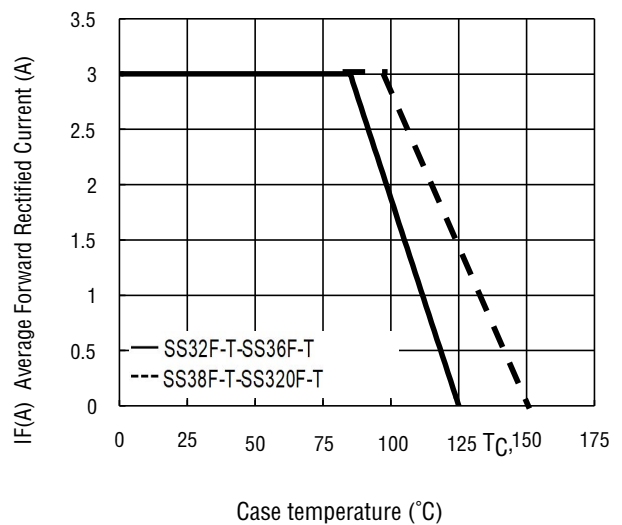
1) Thermal resistance from junction to ambient , PCB mounted.

### Characteristic Curves

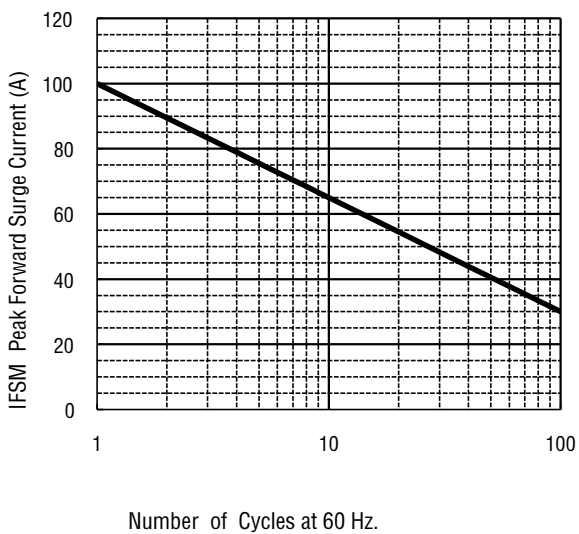
TYPICAL FORWARD CHARACTERISTIC 10



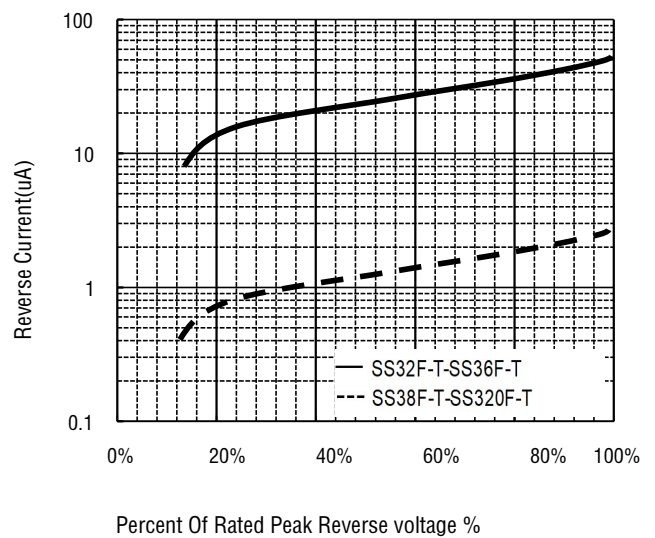
FORWARD CURRENT DERATING CURVE



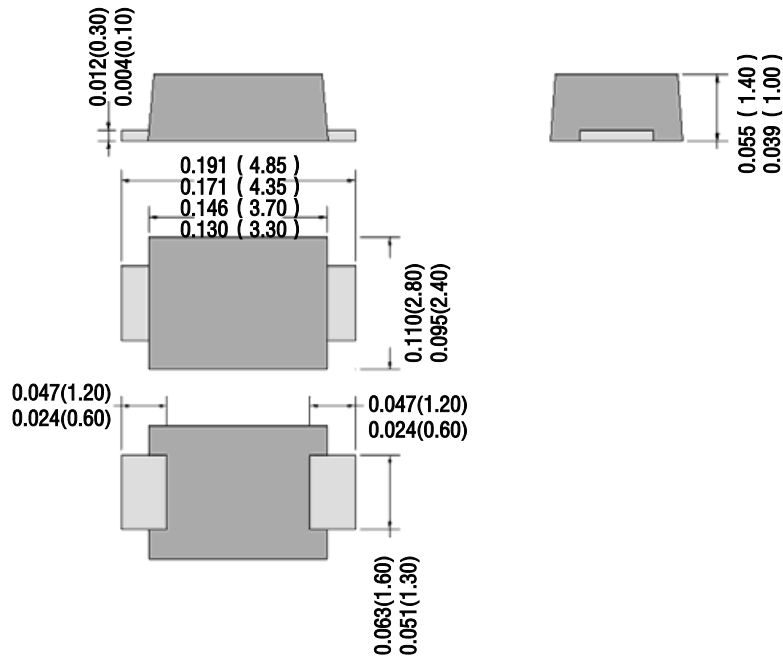
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



### Package Outline



### Package Information

Qty: 3,000/Tape and reel