

# SS32-T thru SS320-T

Reverse Voltage 20 ~ 200 V

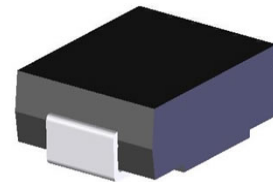
## Automotive Surface Mounted Schottky Barrier Rectifiers

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



DO-214AB/SMC

### Mechanical Data

- Case:DO-214AB 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.

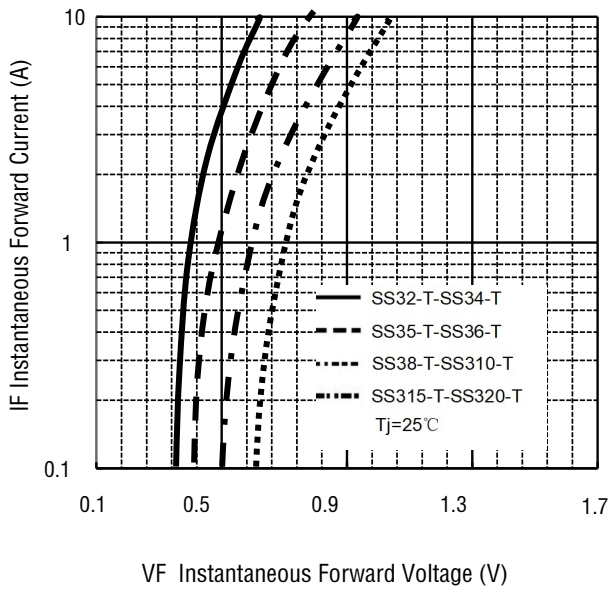
Parameter	Symbols	SS32-T	SS33-T	SS34-T	SS35-T	SS36-T	SS38-T	SS310-T	SS315-T	SS320-T	Unit	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	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	$I_R$	0.5			0.1						mA	
@ $V_{DC}$	$I_R$	20			10							
Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	60					15					°C/W
VR=4.0V,f=1MHz	$C_J$	180										
Type junction capacitance	$T_J$	-55 --- +125					-55 --- +150					°C
Operating junction	$T_{STG}$	-55 --- +150										°C
Storage temperature rang												

Note:

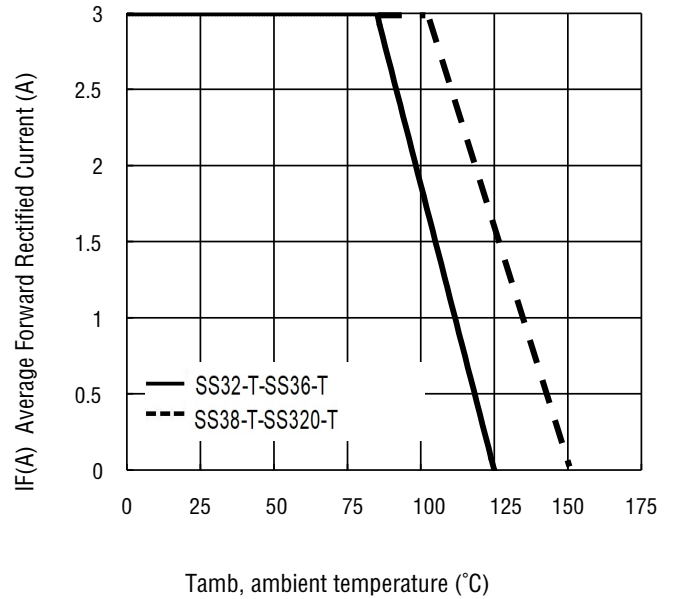
1) Thermal resistance from junction to ambient , PCB mounted.

### Characteristic Curves

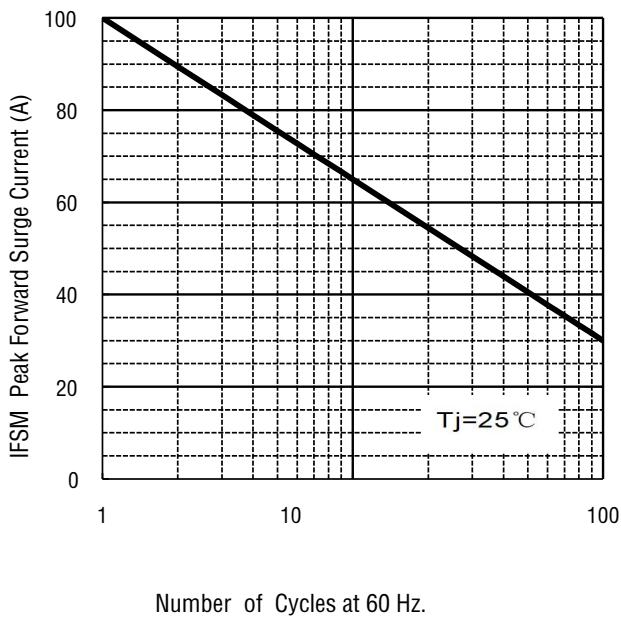
TYPICAL FORWARD CHARACTERISTIC



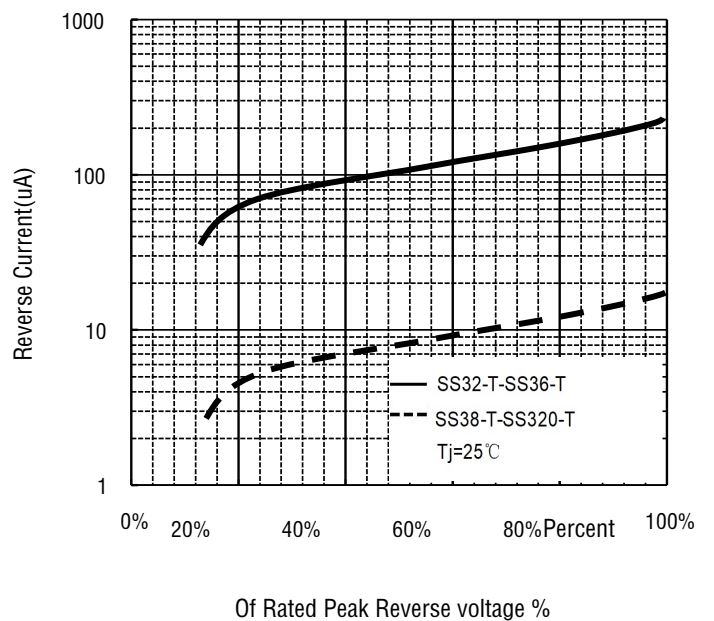
FORWARD CURRENT DERATING CURVE



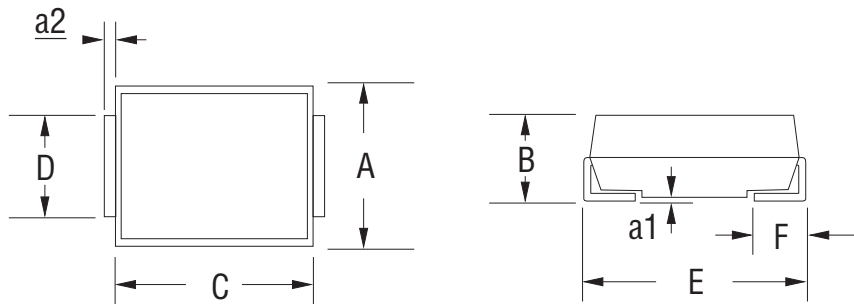
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



Dimension (Unit: mm)



A		B		C		D		E		F		a1		a2	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5.500	6.100	2.100	2.700	6.500	7.100	2.750	3.250	7.400	8.400	0.760	1.520	-	0.203	0.152	0.305

Packaging

- Quantity: 3,000pcs
- 16mm wide tape on 330mm(13 inch) diameter reel –specification EIA Standard 481.