

SS52-T thru SS520-T

Reverse Voltage 20 ~ 200 V

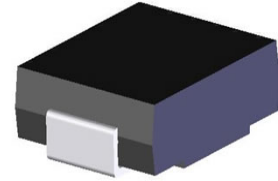
Automotive Surface Mounted Schottky Barrier Rectifiers

PROSEMI AEC-Q101 qualified Surface Mounted Schottky Barrier Rectifiers are specially designed to protect sensitive electronic devices from lightning and other transient voltage.



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



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 other wise specified.

Parameter	Symbols	SS52 -T	SS53 -T	SS54 -T	SS55 -T	SS56 -T	SS58 -T	SS510 -T	SS515 -T	SS520 -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	$I_{F(AV)}$	5.0									A	
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	150									A	
@ $I_F=5.0A$ Maximum forward voltage	V_F	0.55			0.70		0.85		0.92	0.95	V	
@VDC Maximum reverse current	I_R	0.5					0.1					mA
TA= 25°C		20					10					
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$ $R_{\theta JL}$	65					15					°C/W
VR=4.0V,f=1MHz Type junction capacitance	C_R	400									pF	
Operating junction	TR	-55 --- +125					-55 --- +150					°C
Storage temperature range	T _{STG}	-55 --- +150									°C	

Note:

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

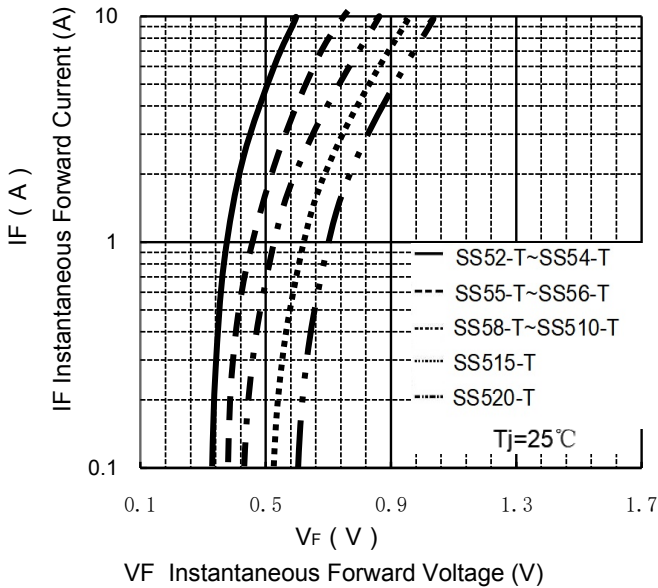
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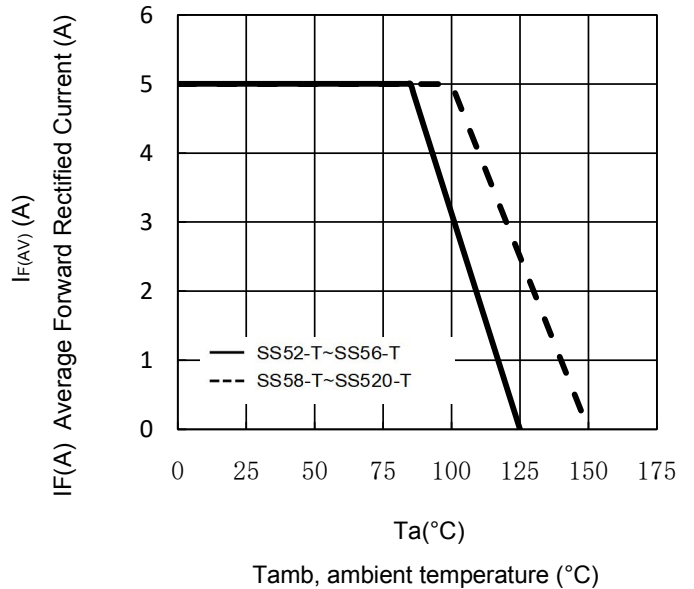
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Characteristic Curves

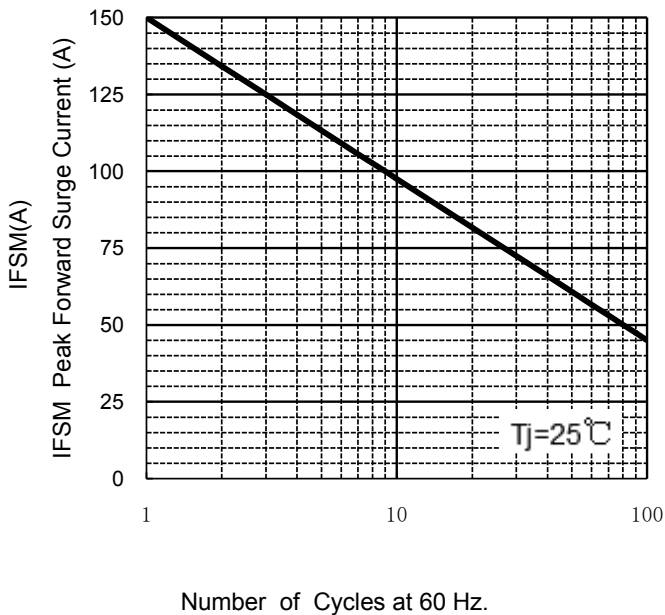
TYPICAL FORWARD CHARACTERISTIC



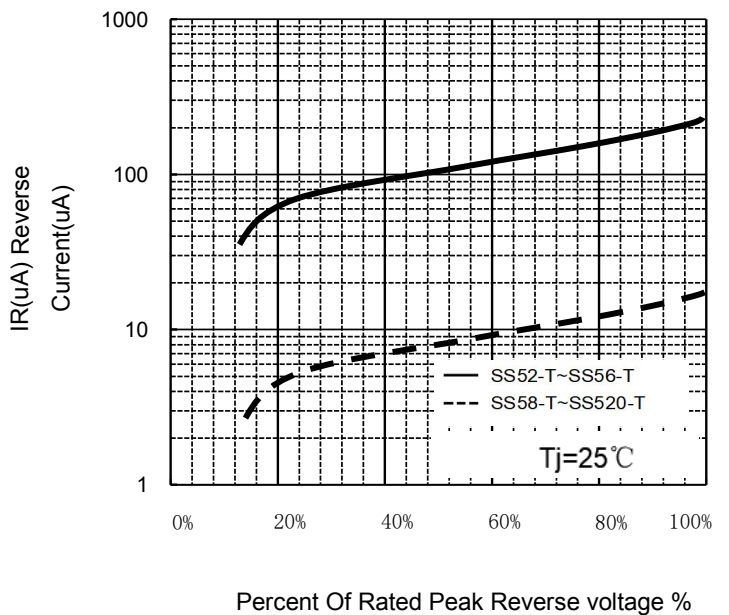
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS

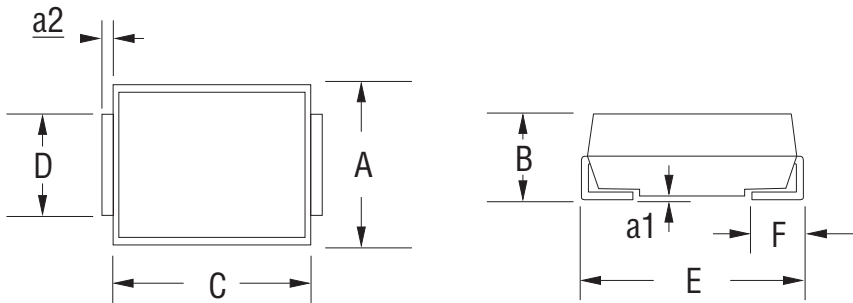


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Dimension (Unit: mm)



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

Package Information

Qty: 3,000/Tape and reel