

DSS22-T thru DSS220-T

Reverse Voltage 20 ~ 200 V

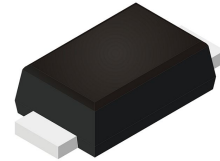
Automotive Surface Mounted Schottky Barrier Rectifiers

PROSEMI offered AEC-Q101 compliant Schottky Barrier rectifiers are 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 (AEC Q101 qualified)
- High temperature soldering guaranteed: 260 °C / 10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



SOD-123FL

Mechanical Data

- Case: SOD-123FL Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free
- System: Accreditation through IATF16949 System
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	DSS 22-T	DSS 23-T	DSS 24-T	DSS 25-T	DSS 26-T	DSS 28-T	DSS 210-T	DSS 215-T	DSS 220-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	$I_{F(AV)}$	2.0									A	
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	50									A	
@ $I_F=2.0A$ Maximum forward voltage	V_F	0.55			0.70		0.85		0.92	0.95	V	
@ V_{DC} Maximum reverse current	I_R	0.5					0.1					mA
$T_A=25\text{ }^\circ\text{C}$		20					10					
Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	85 25									$^\circ\text{C/W}$	
$V_R=4.0V, f=1MHz$ Type junction capacitance	C_J	180									pF	
Operating junction	T_J	-55 --- +125					-55 --- +150					$^\circ\text{C}$
Storage temperature rang	T_{STG}	-55 --- +150									$^\circ\text{C}$	

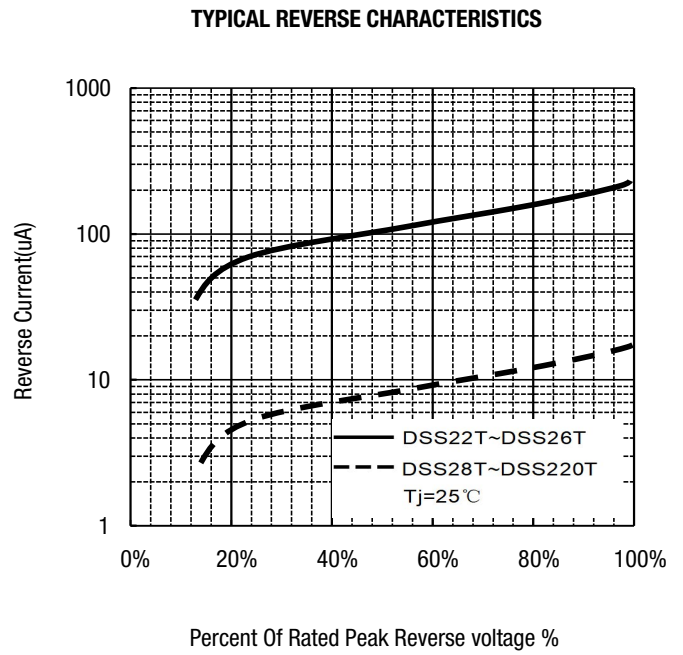
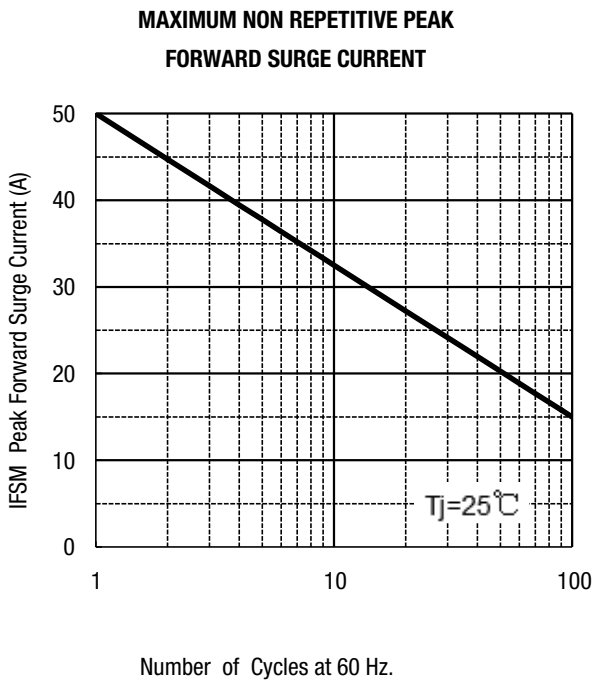
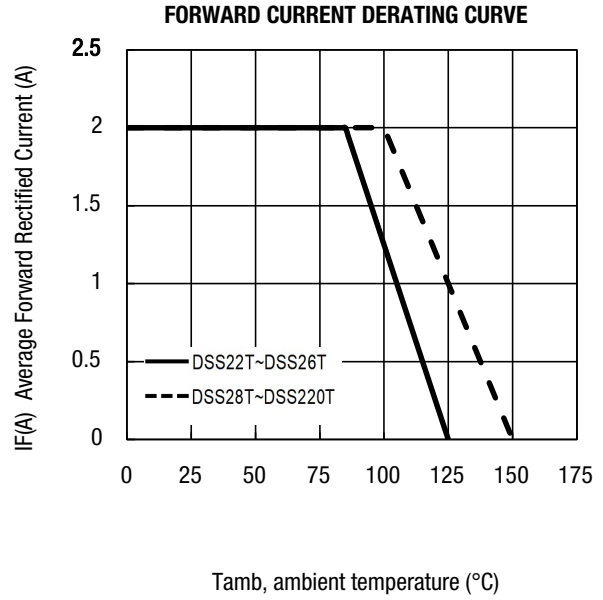
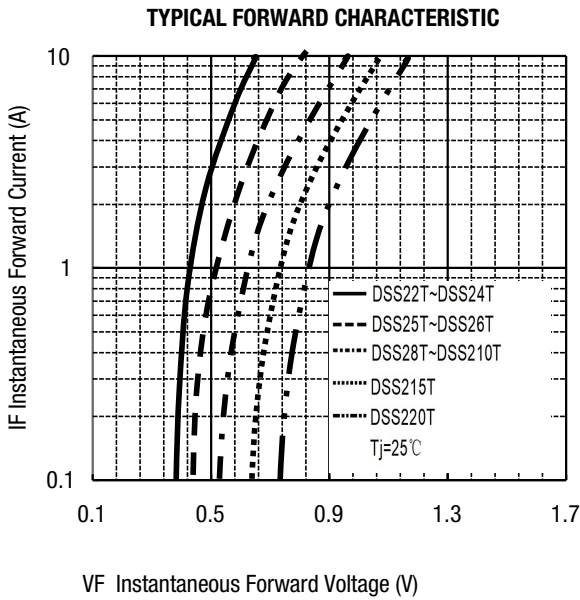
Note:

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

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Characteristic Curves

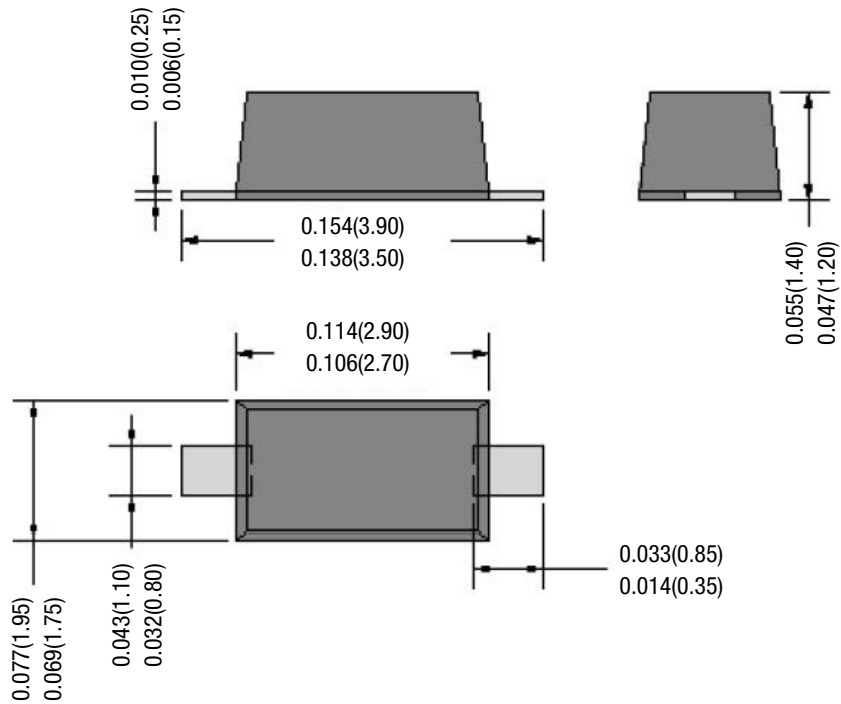


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Package Outline



Unit: inch(mm)

Package Information

Qty: 3,000/Tape and reel