

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



SOD-123FL

Mechanical Data

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

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

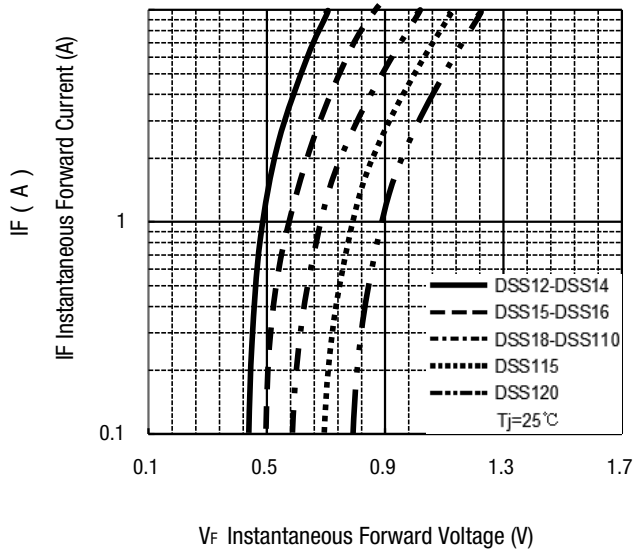
Parameter	Symbols	DSS12	DSS13	DSS14	DSS15	DSS16	DSS18	DSS110	DSS115	DSS120	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum average 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°C Maximum reverse current	I_R	500					100					μA
TA= 100°C		20					10					mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	180									°C/W	
VR=4.0V,f=1MHz Type junction capacitance	C_J	90									pF	
Operating junction temperature rang	T_J	-55 --- +125					-55 --- +150					°C
Storage temperature rang	T_{STG}	-55 --- +150									°C	

Note:

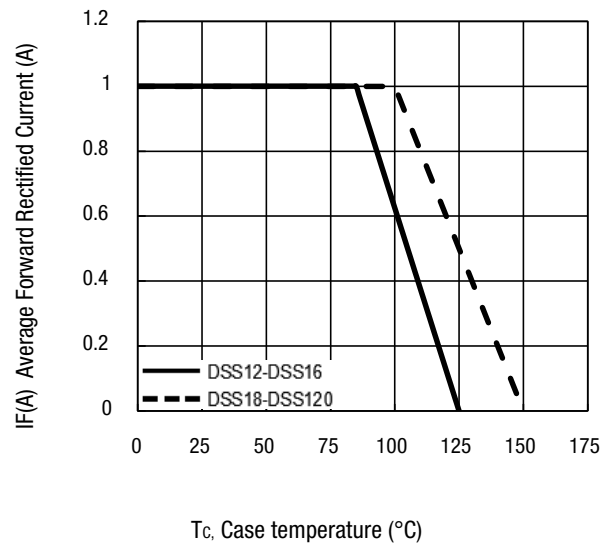
1) Thermal resistance from junction to ambient , PCB mounted.

Characteristic Curves

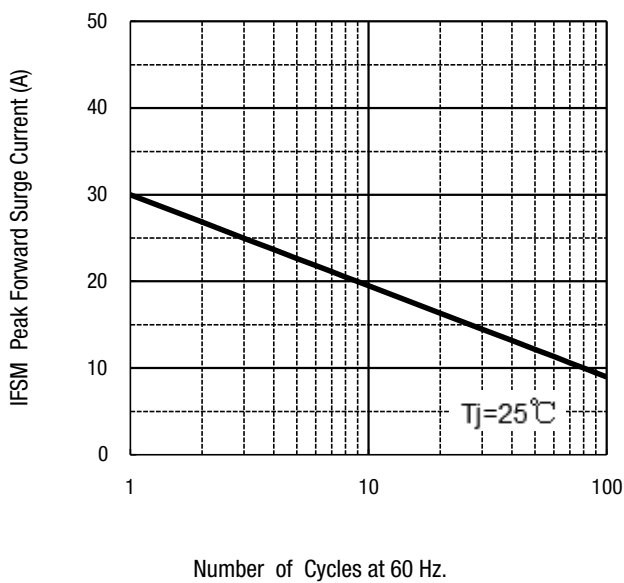
TYPICAL FORWARD CHARACTERISTIC



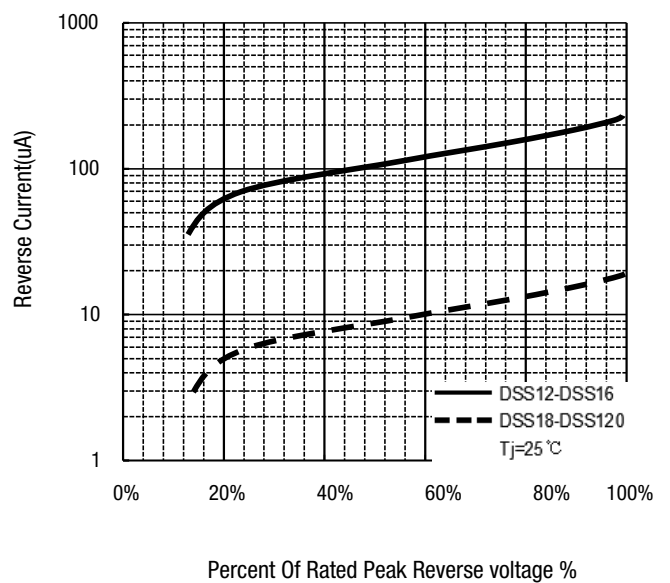
FORWARD CURRENT DERATING CURVE



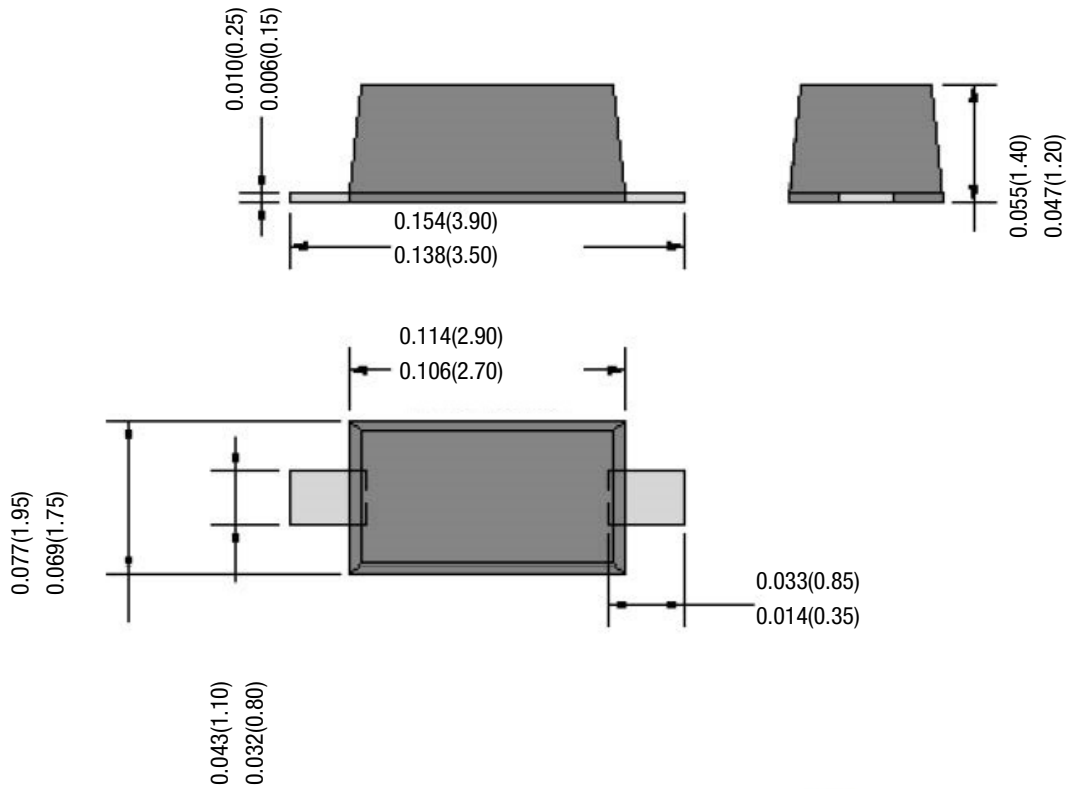
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Unit: inch(mm)

Package Information

Qty: 3,000/Tape and reel