

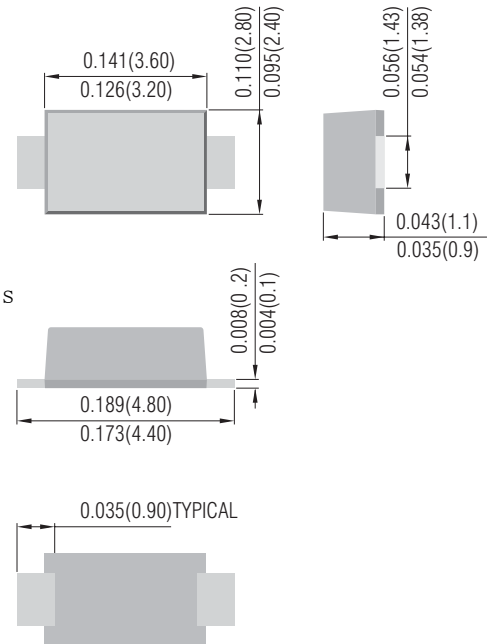


Features

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier.majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity,low VF
- For use in low voltage high frequency inverters,free wheeling and polarity protection applications.
- High temperature soldring guaranteed:260℃/10 seconds at terminals
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- Pb free product at available:99% Sn above meet RoHS environment substance directive request

SMAF

Unit:inch(mm)



Mechanical Data

- Terminals: Solder plated ,solderable per MIL-STD-750,Method 2026
- Case: SMAF molded plastic
- Polarity: Color band denotes postives end(cathode)
- Standard packaging:12mm tape(EIA-481)
- Weight:0.002 ounce,0.064 gram

Maximum Ratings and Electrical Characteristics @TA=25℃ unless otherwise specified

Resistive or inductive load.

Parameter	Symbol	S12	S13	S14	S15	S16	S18	S19	S110	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	64	71	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	90	100	V
Maximum Average forward rectified current at TL(see figure1)	I (AV)	1.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	30.0								A
Maximum instantaneous forward voltage @1.0A(Note 1)	VF	0.50			0.70		0.85			V
Maximum DC reverse current at TA=25℃ at rated DC blocking voltage TA=100℃	IR	0.5 20.0								mA
Maximum thermal resistance per leg (Note2)	R θ JL R θ JA	28.0 88.0								℃/W
Operating and storage temperature range TJ	TJ	-50 to +150								℃
storage temperature range	Tstg	-55 to +150								℃

Note:

1. Pulse Test with PW=300μ sec, 2% Duty Cycle.
2. Mounted on P.C. Board with 5.0mm2(.013mm thick)copper pad areas.

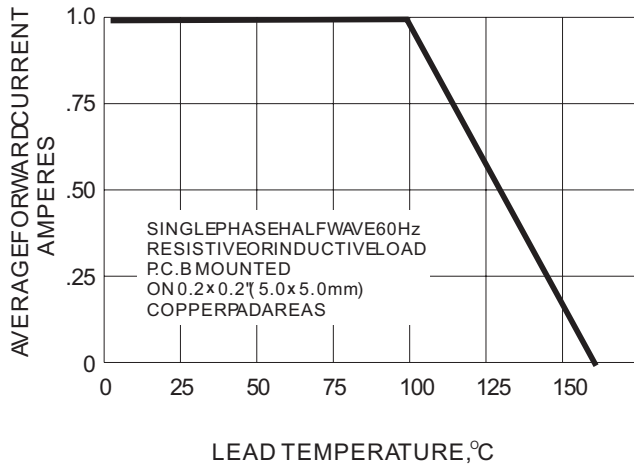


Fig.1-FORWARD CURRENT DERATING CURVE

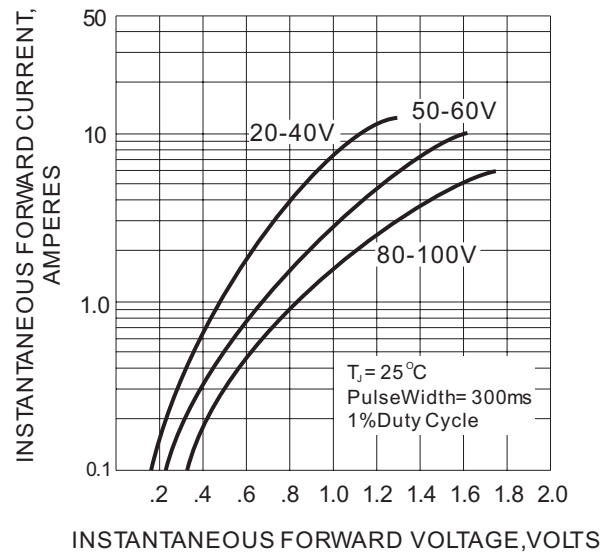


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

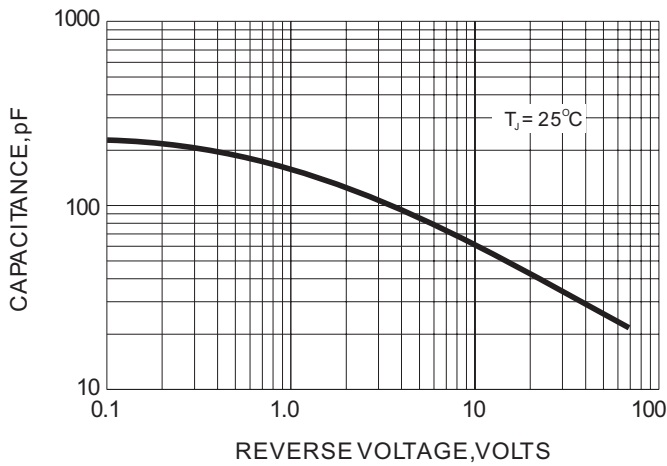


Fig.3-TYPICAL JUNCTION CAPACITANCE

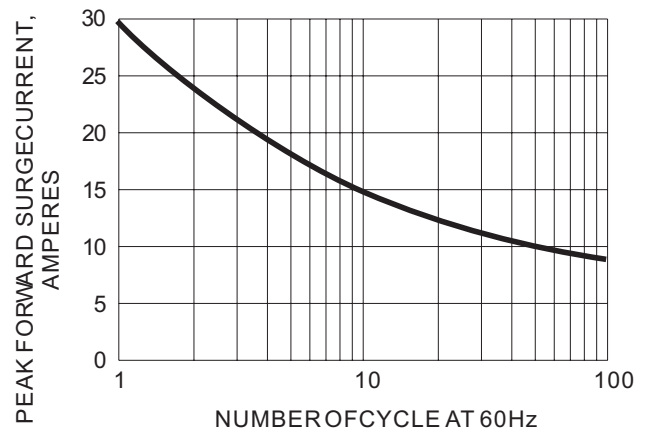


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT