CURRENT 3.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

RS3AF THRU RS3MF

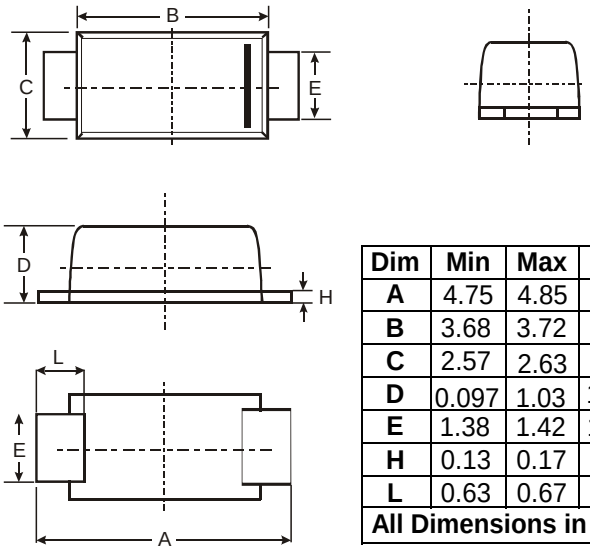
FEATURES

- Glass Passivated chip junction
- Built-in strain relief
- Fast switching speed for high efficiency
- High temperature soldering guaranteed: 250 /10 second at terminals

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-202E method208C
- Polarity: Color band denotes cathode end
- Weight: 0.0014 ounce, 0.062 gram

S M A F



Dim	Min	Max	Typ
A	4.75	4.85	4.80
B	3.68	3.72	3.70
C	2.57	2.63	2.60
D	0.097	1.03	1.00
E	1.38	1.42	1.40
H	0.13	0.17	0.15
L	0.63	0.67	0.65
All Dimensions in mm			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25 ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%.

	SYMBOLS	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_L=100	$I_{(AV)}$	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	100							Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.3							Volts
Maximum DC Reverse Current at rated DC blocking voltage at T_A = 25	I_R	10.0							A
Maximum DC Reverse Current at rated DC blocking voltage at T_A = 125	I_R	250							A
Typical Reverse Recovery Time Test conditions I_F=0.5A, I_R=1.0A, I_{RR}=0.25A	T_{rr}	150				250	500		ns
Typical Junction Capacitance (NOTE 2)	C_J	60							pF
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	50							/W
Typical Thermal Resistance (NOTE 1)	$R_{\theta JL}$	15							/W
Operating Junction Temperature Range	T_J	-55 to +150							
Storage Temperature Range	T_{STG}	-55 to +150							

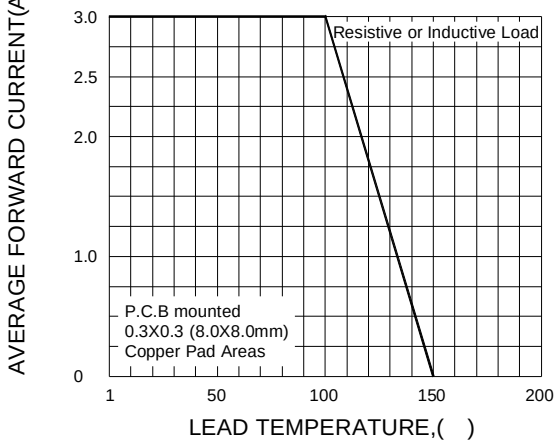
Notes:
1. Thermal resistance from Junction to ambient and from junction to lead mounted on PCB with 0.3×0.3″ (8.0 × 8.0mm) copper pad areas.
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

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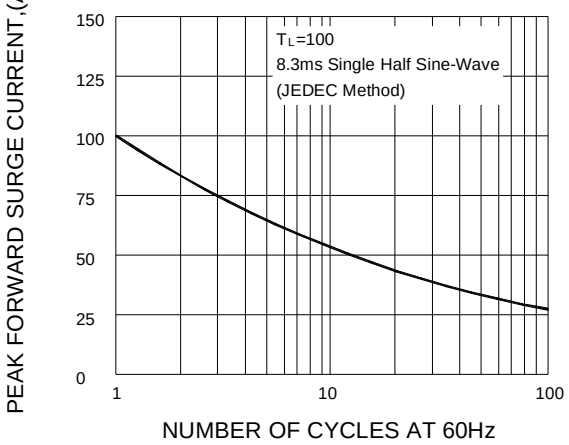
RS3AF THRU RS3MF

RATING AND CHRACTERISTIC CURVES RS3A Thru RS3M

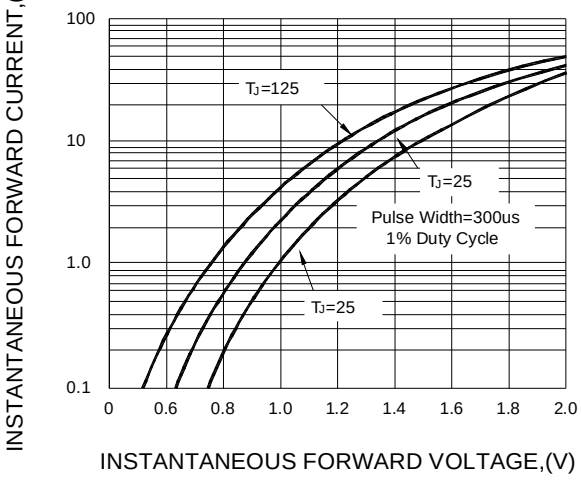
F1G.1-FORWARD CURRENT DERATING CURVE



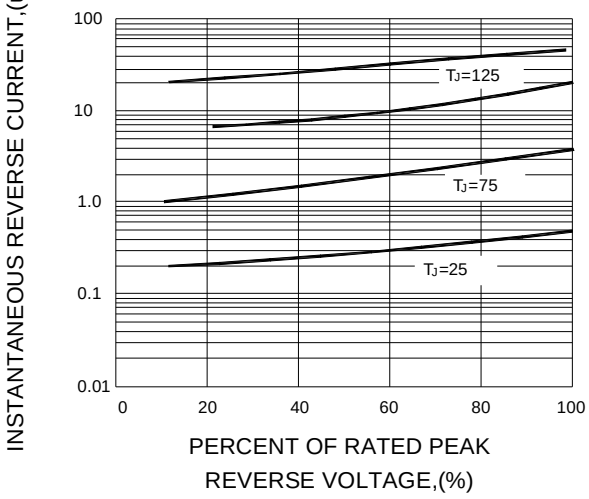
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



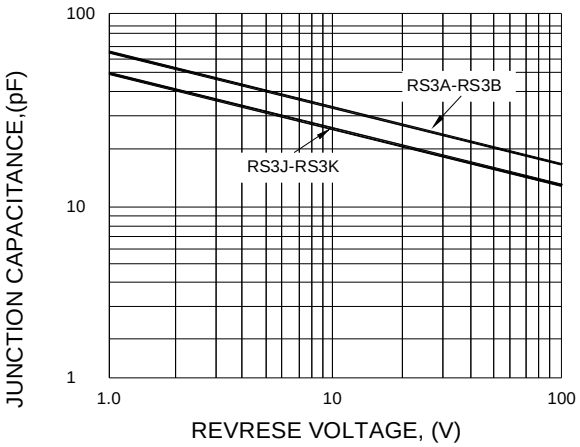
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TRANSIENT THERMAL IMPEDANCE

