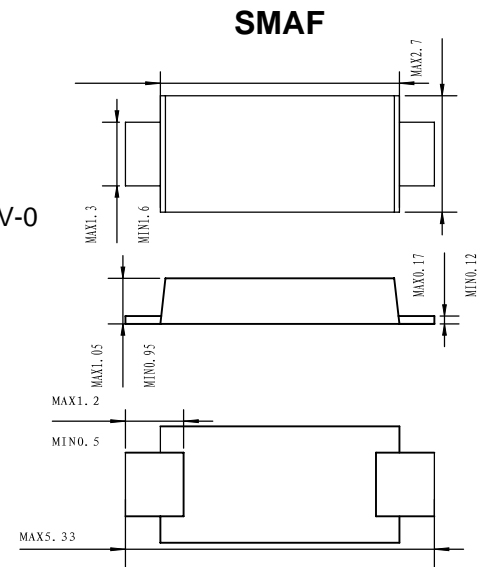


FEATURES

- ✧ Low profile package
- ✧ For surface mounted applications
- ✧ Built-in strain relief, ideal for automated placement
- ✧ High temperature soldering: 260°C/10 seconds at terminals
- ✧ Plastic package has underwriters, laborator flammability classification 94V-0

MECHANICAL DATA

- ✧ Case :JEDEC SMAF, molded plastic over passivated chip
- ✧ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- ✧ Polarity: color band denotes cathode end



Marking Information



LGE: Lu Guang Electronic XXXX:
marking code (RS1AF-RS1MF)

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	RS1A F	RS1B F	RS1D F	RS1G F	RS1J F	RS1K F	RS1M F	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current $T_L=90^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	30							A

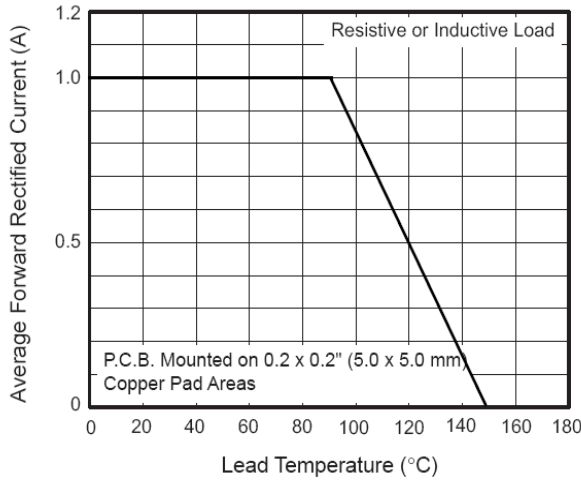
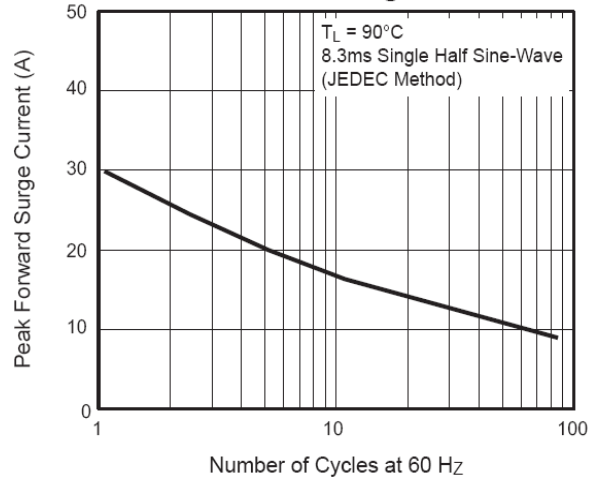
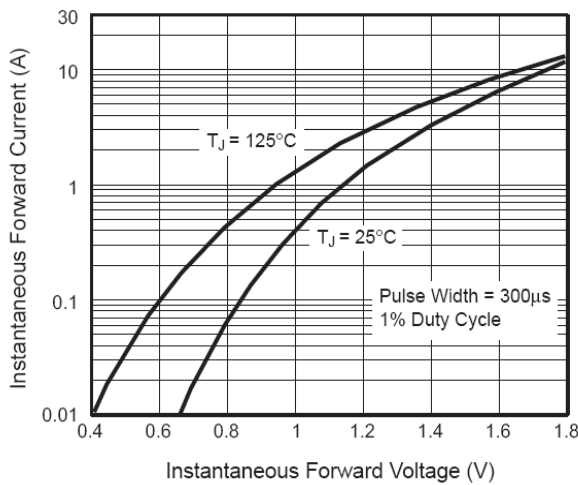
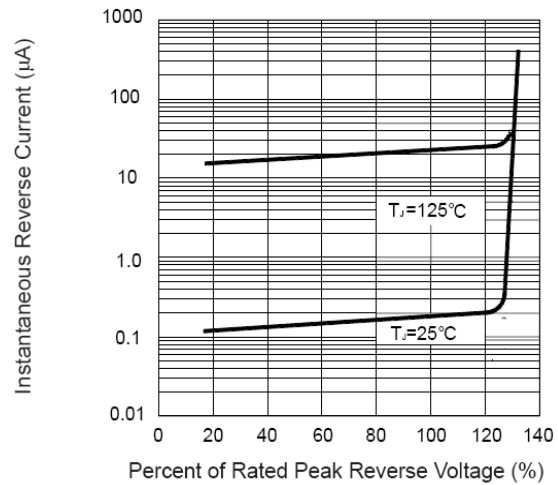
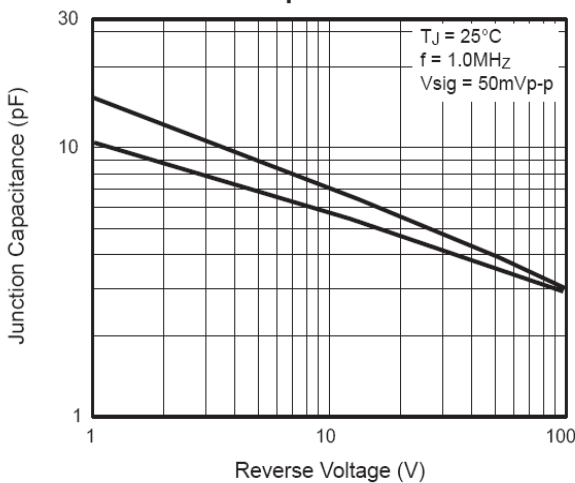
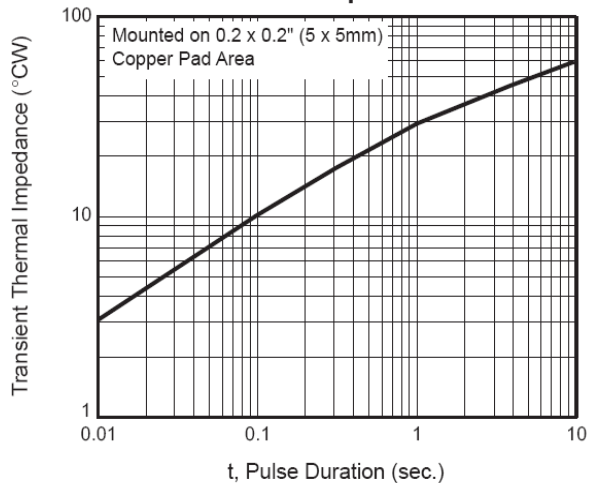
Thermal Characteristics

Characteristic	Symbol	RS1A F	RS1B F	RS1D F	RS1G F	RS1J F	RS1K F	RS1M F	UNITS
Typical junction capacitance (Note2)	C_J	10					7.0		pF
Typical thermal resistance (Note3)	$R_{\theta JL}$	17							°C/W
Operating junction and storage temperature range	$T_J T_{STG}$	- 55 ----- + 150							°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	RS1A F	RS1B F	RS1D F	RS1G F	RS1J F	RS1K F	RS1M F	UNITS
Maximum instantaneous forward voltage at 1.0 A	V_F	1.30							V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R					5.0			μA
Typical reverse recovery time (Note1)	t_{rr}	150				250	500		ns

- NOTE: 1.Reverse recovery time test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
 2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
 3. Thermal resistance from junction to lea

Fig. 1 — Forward Current Derating Curve

Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 — Typical Instantaneous Forward Characteristics

Fig. 4 — Typical Reverse Characteristics

Fig. 5 — Typical Junction Capacitance

Fig. 6 — Typical Transient Thermal Impedance


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMAF	3000/REEL	80000	36X30.6X31	12.00	11.00

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