

REVERSE VOLTAGE: 50 --- 1000 V

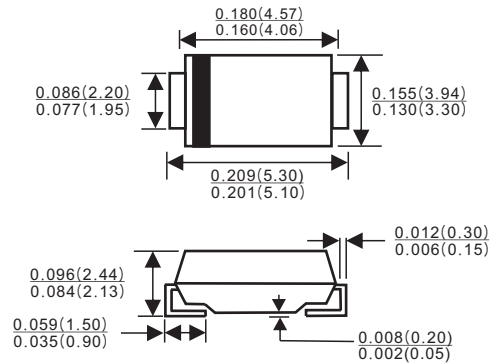
CURRENT: 1.0A



SMB/DO-214AA

Features

- ✧ Plastic package has underwriters laborator flammability classification 94V-0
- ✧ For surface mounted applications
- ✧ Low profile package
- ✧ Built-in strain relief, ideal for automated placement
- ✧ Glass passivated chip junction
- ✧ High temperature soldering: 250°C/10 seconds at terminals



Mechanical Data

- ✧ Case: JEDEC DO-214AA, molded plastic over passivated chip
- ✧ Polarity: color band denotes cathode end
- ✧ Weight: 0.003 ounces, 0.093 gram

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

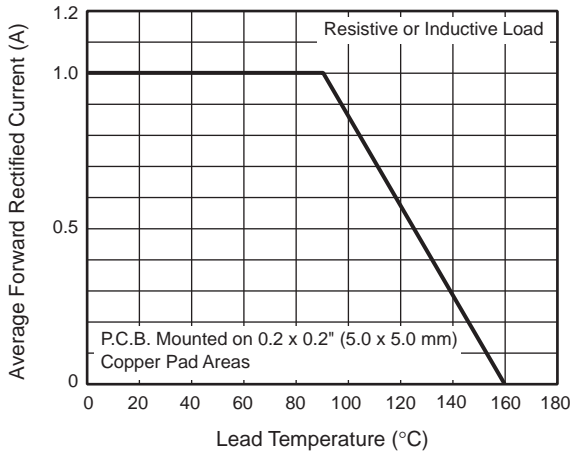
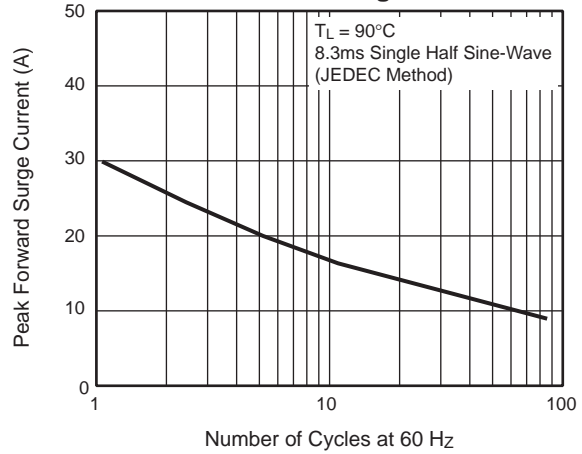
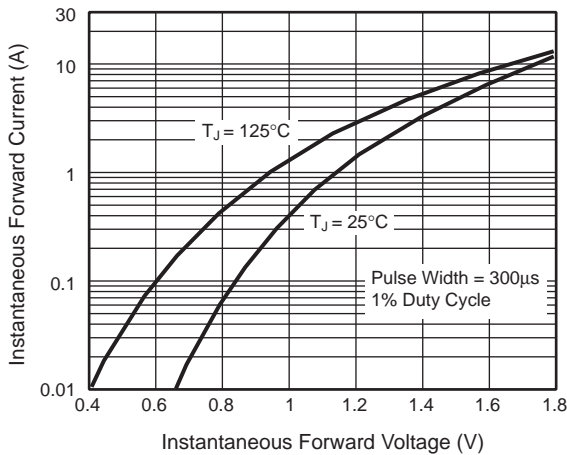
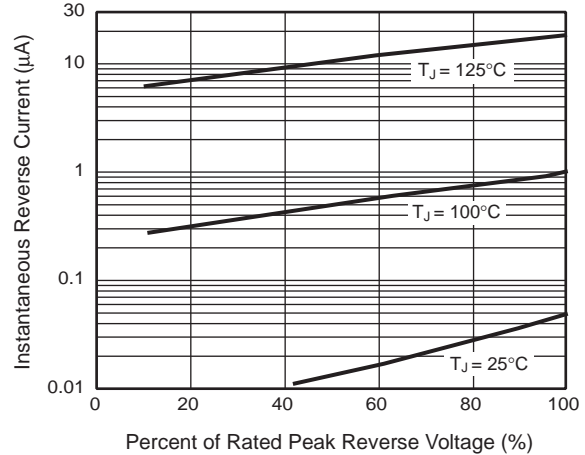
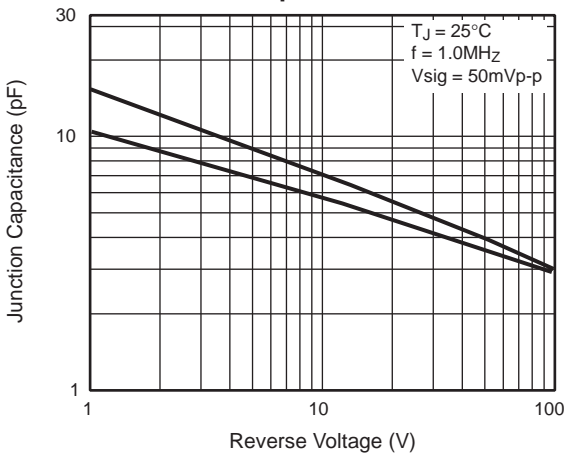
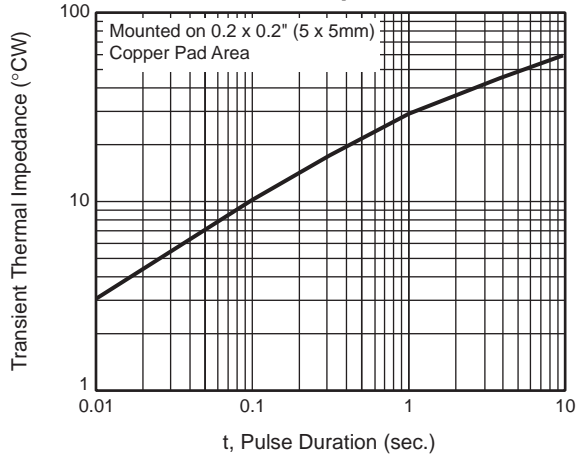
		FR1A RS1AB	FR1B RS1B	FR1D RS1D	FR1G RS1G	FR1J RS1J	FR1K RS1K	FR1M RS1M	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RWS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified 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}	30.0							A
Maximum instantaneous forward voltage at 1.0A	V_F	1.30							V
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R	5.0 50.0							μA
Maximum reverse recovery time (NOTE 1)	t_{rr}	150				250	500		ns
Typical junction capacitance (NOTE 2)	C_J	10					7.0		pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$ $R_{\theta JL}$	105 32							$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J T_{STG}$	- 55 ----- + 150							$^\circ\text{C}$

NOTE: 1. Reverse recovery time test conditions: $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

3. Thermal resistance from junction to ambient and junction to lead P.C.B. mounted on 0.2"X0.2"(5.0X5.0mm²) copper pad areas

Ratings AND Characteristic Curves

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
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00

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