

VOLTAGE RANGE 1000 Volts
CURRENT 2.0 Ampere

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Low profile surface mounted package
- ◆ Built-in strain relief
- ◆ Fast switching for high efficiency
- ◆ Glass passivated chip junction
- ◆ High temperature soldering: 250°C/10 seconds at terminals

DO-214AA (SMB)



MECHANICAL DATA

- ◆ Case: JEDEC DO-214AA molded plastic over glass passivated chip
- ◆ Terminals: Solder plated, Solderable per MIL-STD-759, method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Weight: 0.002 ounce, 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified.)

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

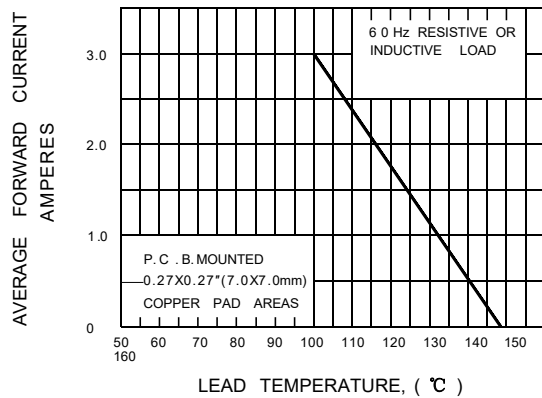
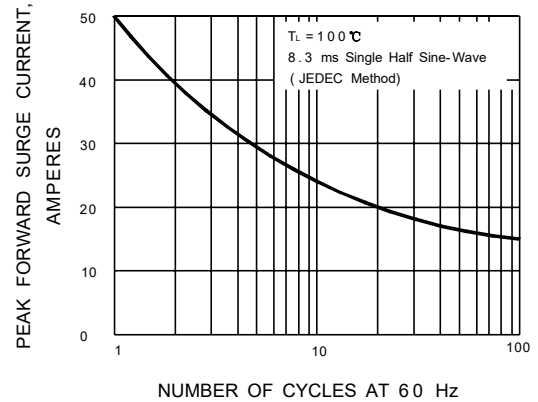
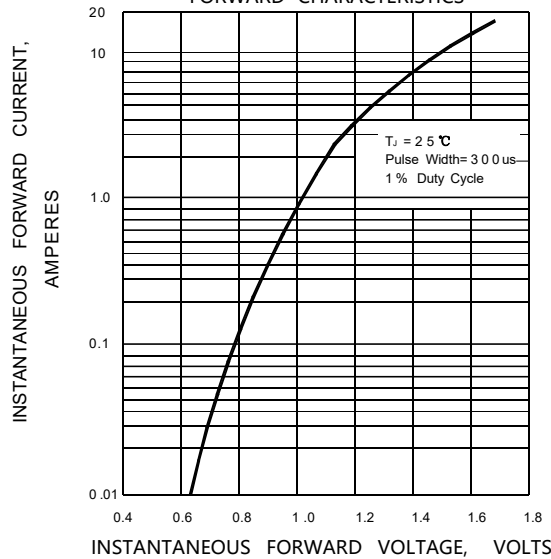
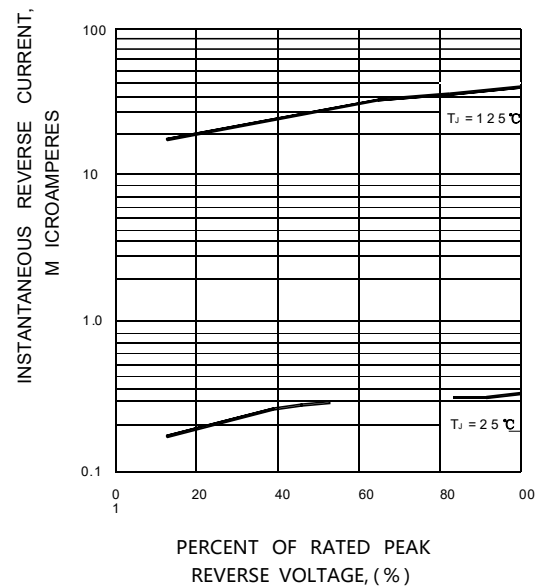
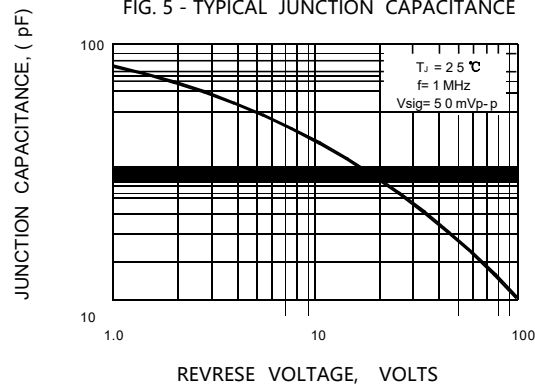
PARAMETERS	SYMBOLS	RS2M-13-F-CN	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	Volts
Maximum RMS Voltage	V_{RMS}	700	Volts
Maximum DC Blocking Voltage	V_{DC}	1000	Volts
Maximum Average Forward Rectified Current at $T_L=100^{\circ}C$	$I_{F(AV)}$	2.0	Amps
Peak Forward Surge Current 8.3ms single half sine wave super imposed on rated load (JEDEC method) $T_L=100^{\circ}C$	I_{FSM}	50	Amps
Typical Thermal Resistance (NOTE1)	$R_{\theta JA}$	55	$^{\circ}C/W$
	$R_{\theta JL}$	18	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS

PARAMETERS	SYMBOLS	RS2M-13-F-CN	UNIT
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.30	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	I_R	5.0	μA
		200	
Typical Reverse Recovery Time $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$	T_{rr}	500	ns
Typical junction capacitance at 4.0V, 1MHz	C_J	30	pF

Notes:

1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.27 \times 0.27"$ ($7.0 \times 7.0mm$) 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


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