

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.0 Ampere

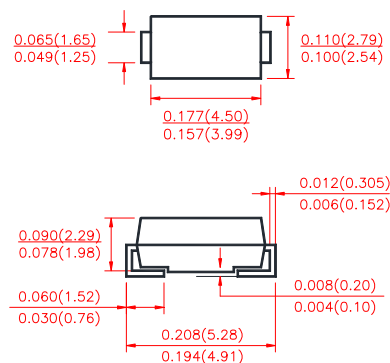
FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Fast switching for high efficiency
- Glass passivated chip junction
- High temperature soldering
250°C/10 second at terminals

MECHANICAL DATA

- Case: JEDED DO-214AC molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end

DO-214AC(SMA)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

	SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	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 T _L =90°C	I _{F(AV)}	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T _L =90°C	I _{FSM}	30							Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	105							°C/W
	R _{θJL}	32							
Operating junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

		SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
Maximum Instantaneous Forward Voltage at 1.0A		V _F	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	I _R	5.0							μA
	T _A = 125°C		50							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	150				250	500		ns
Typical junction capacitance at 4.0V, 1MHz		C _J	30					7.0		pF

Notes:

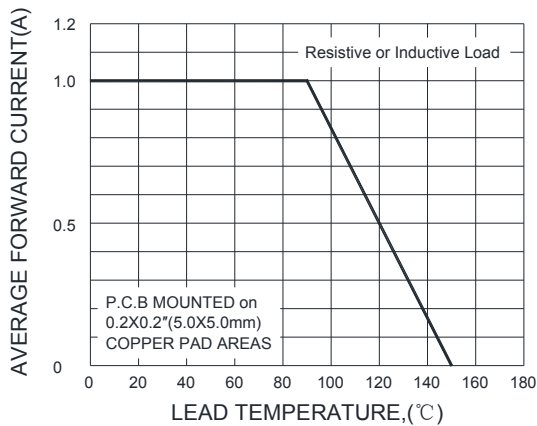
- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.2×0.2" (5.0 × 5.0mm) copper pad areas.

MARKING

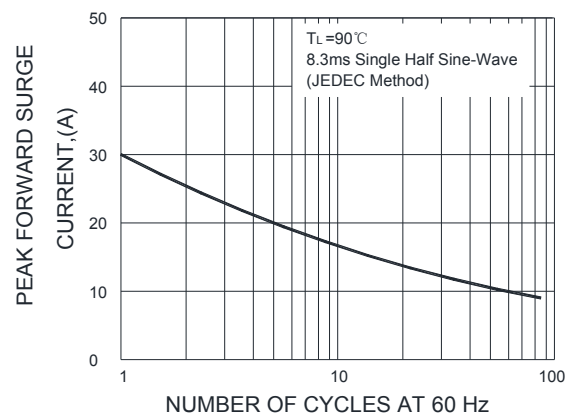
Symbol	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M
Marking	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M

RATINGS AND CHARACTERISTIC CURVES

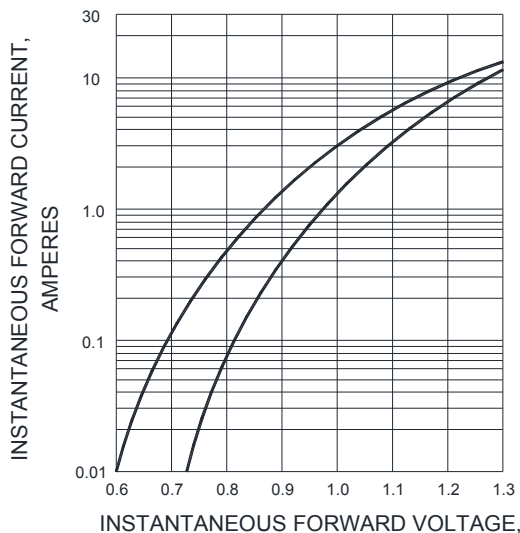
F1G.1-FORWARD CURRENT DERATING CURVE



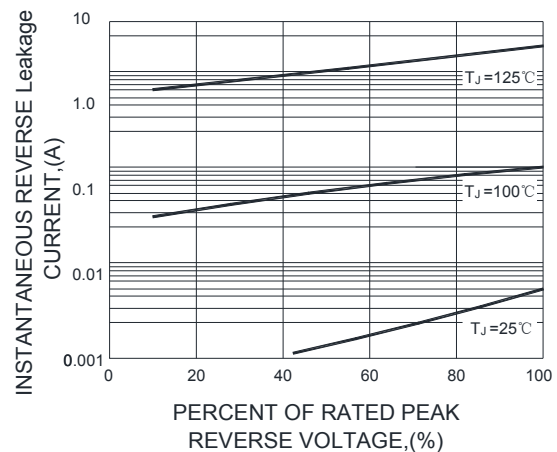
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



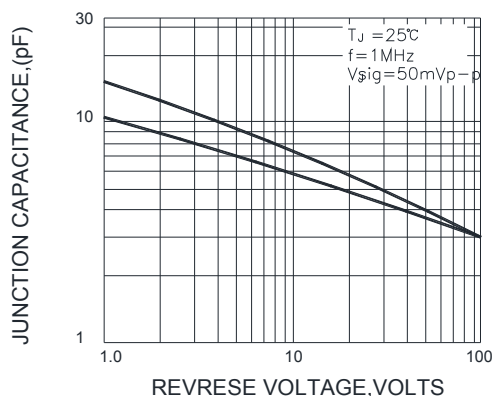
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



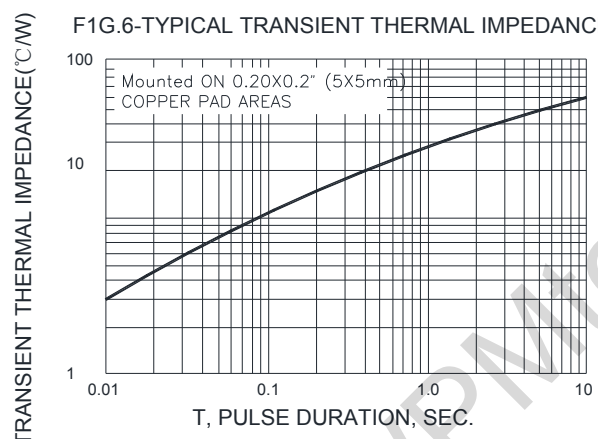
F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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