

CURRENT 1.0 Ampere
VOLTAGE RANG 50 to 1000 to 1500 Volts

1A1 THRU 1A7 THRU 1A9

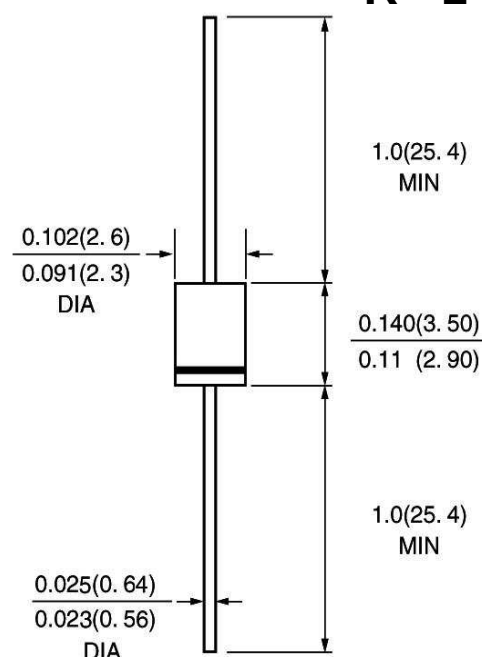
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FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260 /10 secods/.375 (9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.0070 ounce, 0.20 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOLS	1A1	1A2	1A3	1A4	1A5	1A6	1A7	1A8	1A9	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	1200	1500	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	840	1050	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	1200	1500	Volts
Maximum Average Forward Rectified Current 0.375 (9.5mm) lead length at T _A = 25		I _(AV)	1.0									Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	25									Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V _F	1.1									Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	T _A = 25	I _R	5.0									μA
	T _A = 125		50									
Maximum Full Load Reverse Current, full cycle average 0.375 (9.5mm)lead length at T _L =75		I _{R(AV)}	30									μA
Typical Junction Capacitance (Note 1)		C _J	40									pF
Typical Thermal Resistance (Note 2)		R _{θJA}	50									/W
Operating Junction Temperature Range		T _J	-55 to +150									
Storage Temperature Range		T _{STG}	-55 to +150									

Notes:

1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
2. Thermal Resistance from junction to Ambient at .375 (9.5mm)lead length, P.C.board mounted.

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RATING AND CHARACTERISTIC CURVES 1A1 Thru 1A7 Thru 1A9

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

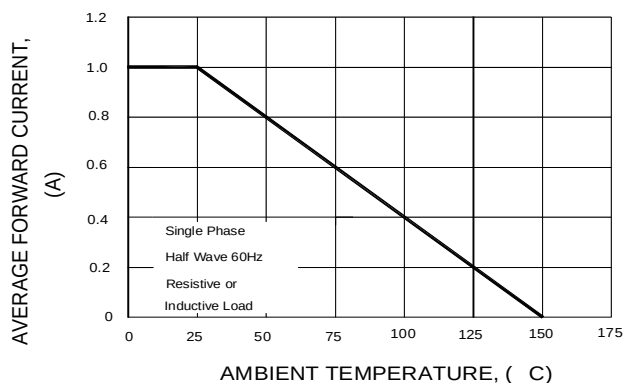


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

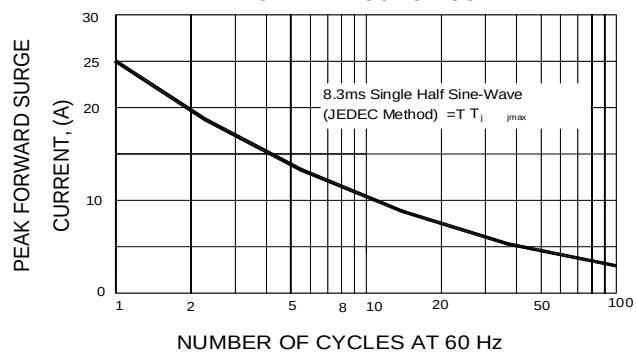


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

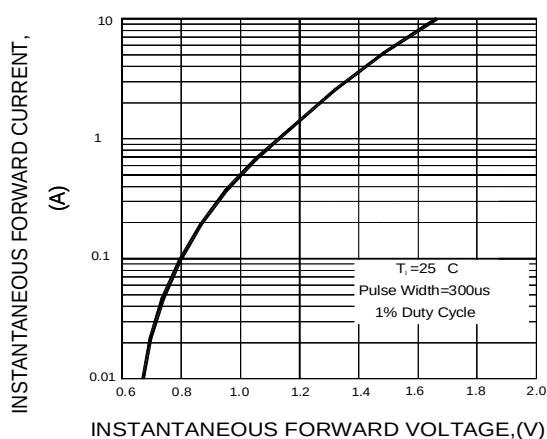


FIG.4-TYPICAL REVERSE CHARACTERISTICS

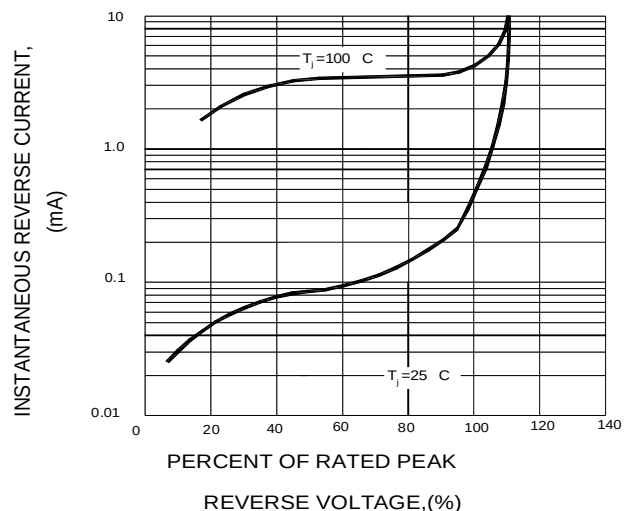


FIG.4-TYPICAL JUNCTION CAPACITANCE

