

1A1 THRU 1A7

**MINIATURE
PLASTIC RECTIFIER**
VOLTAGE 50 TO 1000V CURRENT 1.0A

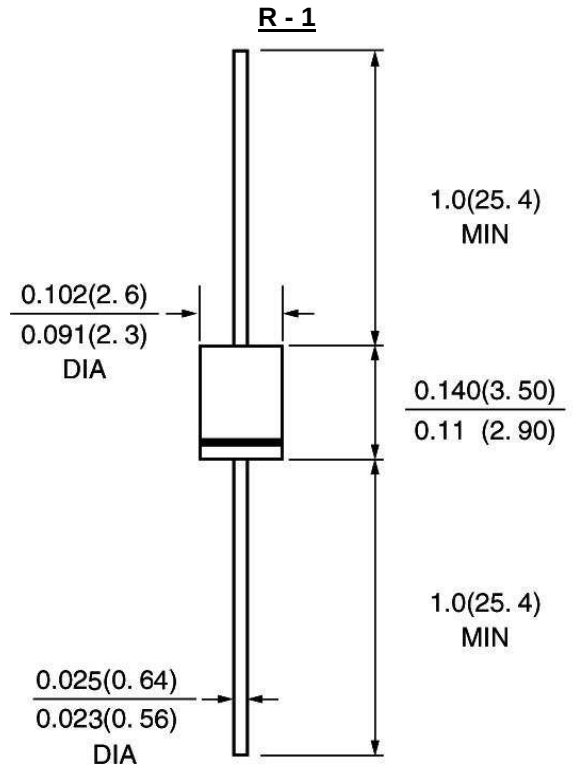


FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C/10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

Terminal Plated axial leads solderable per
MIL-STD 202E, method 208C
Case Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity color band denotes cathode
Mounting position any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	SYMBOL	1A1	1A2	1A3	1A4	1A5	1A6	1A7	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 3/8" lead length at Ta =25°C,	I _{f(av)}	1.0							A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I _{fsm}	25.0							A
Maximum Instantaneous Forward Voltage at rated forward current	V _f	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	5.0 50.0							μA μA
Typical Junction Capacitance (Note 1)	C _j	15.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	50.0							°C/W
Storage and Operation Junction Temperature	T _{stg}	-50 to +150							°C

Note

1. Measured at 1.0 MHz and applied voltage of 4.0V_{dc}
2. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

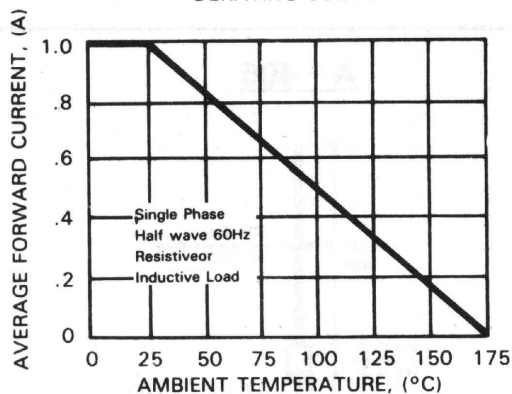


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

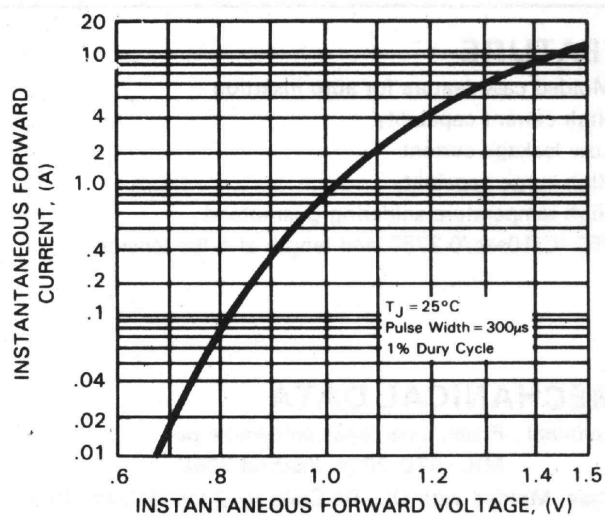


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

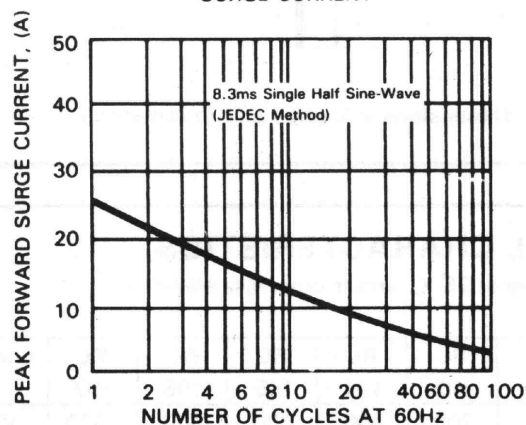


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

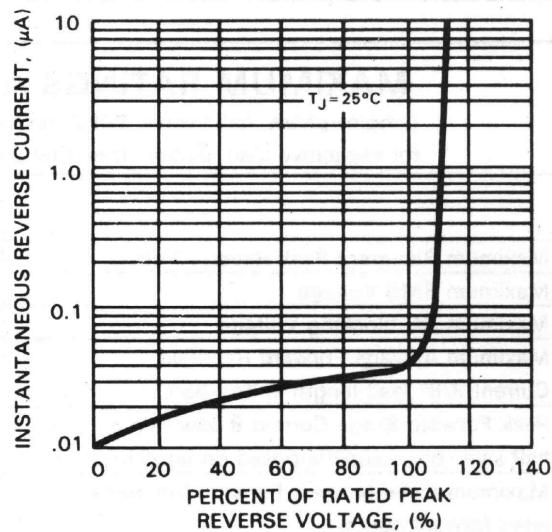


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

