1A1 THRU 1A7

MINIATURE PLASTIC RECTIFIER VOLTAGE50 TO 1000V **CURRENT 1.0A**



FEATURE

MECHANICAL DATA

Mounting positionany

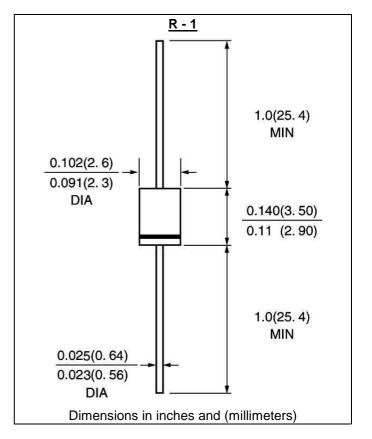
Retardant Epoxy

Polaritycolor band denotes cathode

TerminalPlated axial leads solderable per

MIL-STD 202E, method 208C CaseMolded with UL-94 Class V-0 recognized Flame

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



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	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =25°C,	lf(av)	1.0							A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	lfsm	25.0							A
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.1							V
Maximum DC Reverse Current Ta =25°C	lr	5.0							μA
at rated DC blocking voltage Ta =100°C		50.0							μA
Typical Junction Capacitance (Note 1)	Cj	15.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	50.0							°C/V
Storage and Operation Junction Temperature	Tstg	-50 to +150							°C

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc

2. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES 1A1 THRU 1A7

20

10

4

2

.4

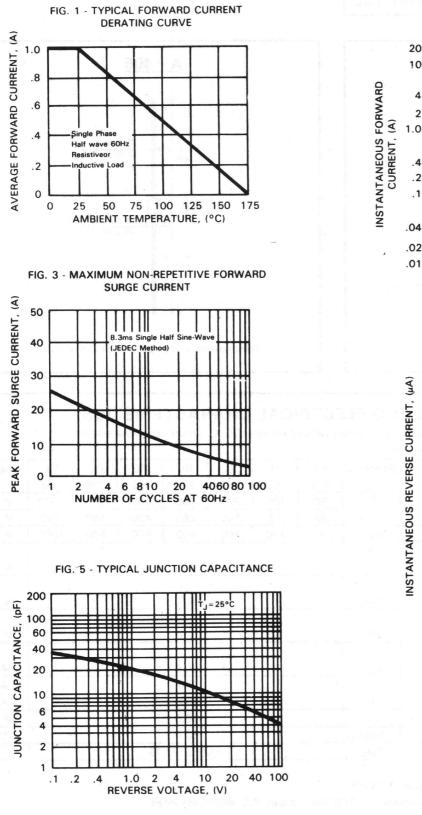
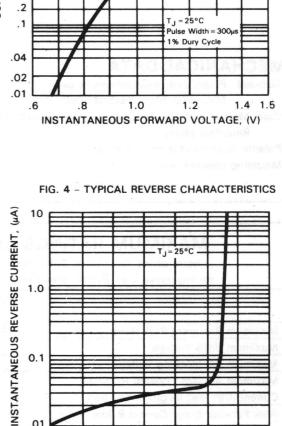


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



0.1

.01

0

20

40

60

80

PERCENT OF RATED PEAK

REVERSE VOLTAGE, (%)

100

120 140

¹ Rev.A4