

GENERAL PURPOSE RECTIFIER

$1 \wedge 1$ THRU $1 \wedge 0$	VOLTAGE RANGE	50 to 1500 Volts
IAI IIIKU IA9	CURRENT	1.0 Ampere

FEATURES

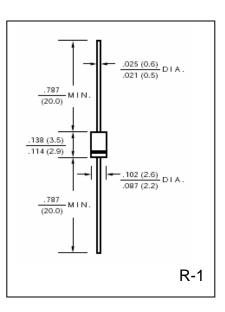
- Low reverse leakage
- High forward surge current capacity
- High temperature soldering guaranteed: 260 /10 seconds, 0.375" (9.5mm) lead length

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.007 ounce, 0.20 gram



- Ratings at 25^oC 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 $T_A = 25^{\circ}C$	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 $T_A = 25$ °CDC Blocking Voltage per element $T_A = 100$ °C	I _R	5.0 50									μА
Maximum Full Load Reverse Current, full cycle Average 0.375° (9.5mm) lead length at T _L = 75 $^{\circ}$ C	I _{R(AV)}	30								μΑ	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	15									pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	50									^o C/W
Operating Junction Temperature Range	TJ	(-65 to +175)								°C	
Storage Temperature Range	T _{STG}	(-65 to +175)								°C	

Notes:

Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted



RATINGS AND CHARACTERISTIC CURVES 1A1 THRU 1A9

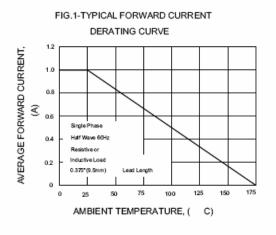
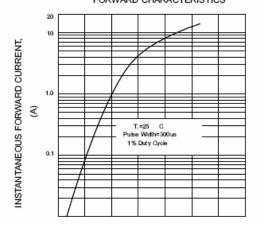
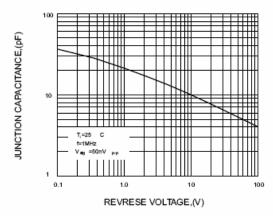


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG.5-TYPICAL JUNCTION CAPACITANCE



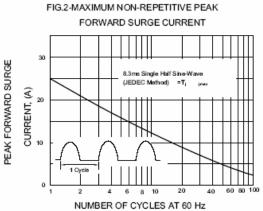


FIG.4-TYPICAL REVERSE CHARACTERISTICS

