

R1A1G THRU R1A7G

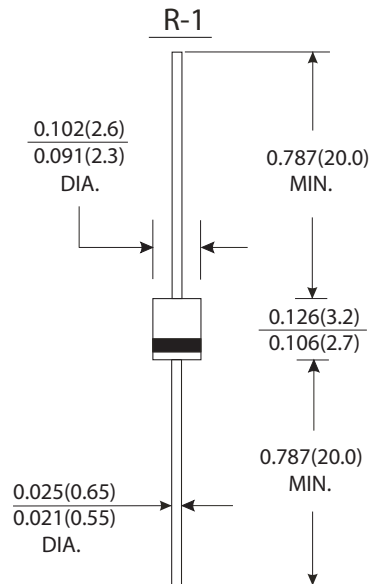
CURRENT 1.0Ampere
VOLTAGE 50 to 1000 Volts

Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High current capability
- Low reverse leakage
- Glass passivated junction
- Low forward voltage drop
- High temperature soldering guaranteed : 350 °C /10 seconds, 0.375"(9.5mm) lead length, 5 lbs, (2.3kg) tension

Mechanical Data

- Case : R-1 molded plastic body
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.007 ounce, 0.19 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 by 20%)

		Symbols	R1A1G	R1A2G	R1A3G	R1A4G	R1A5G	R1A6G	R1A7G	Units
Maximum recurrent peak reverse voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length TA=25 °C		l(AV)	1.0							Amp
Peak forward surge current 8.3ms half sing wave superimposed on rated load (JEDEC method)		lFSM	25.0							Amps
Maximum instantaneous forward voltage at 1.0A		VF	1.0							Volts
Maximum reverse current at rated voltage	TA=25 °C	IR	5.0							μA
	TA=100 °C		50.0							
Typical thermal resistance (Note 2)		RΘJA	50.0							°C/W
Typical junction capacitance (Note 1)		CJ	15.0							pF
Operating and Storage temperature Range		TJ TSTG	-65 to +175							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES R1A1G THRU R1A7G

FIG.1-FORWARD CURRENT DERATING CURVE

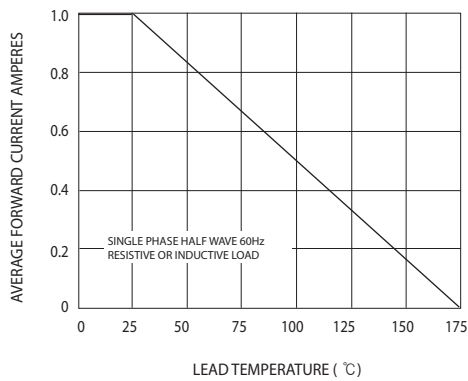


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

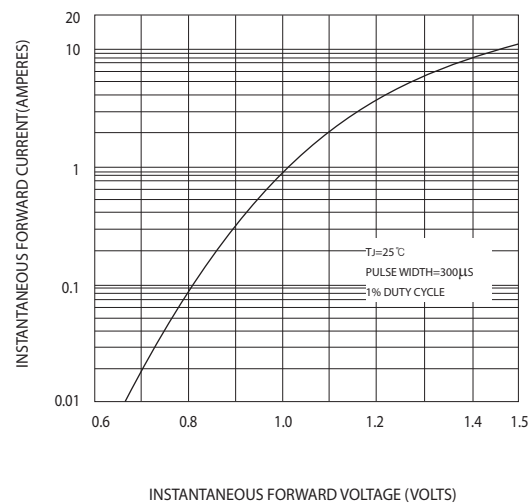


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

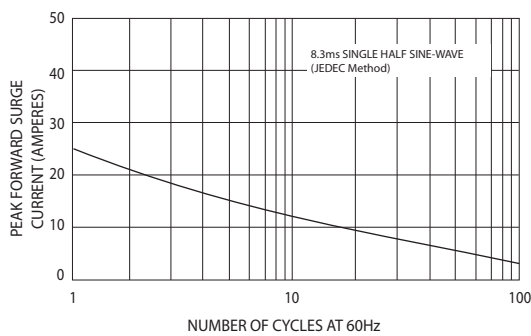


FIG.4-TYPICAL REVERSE CHARACTERISTICS

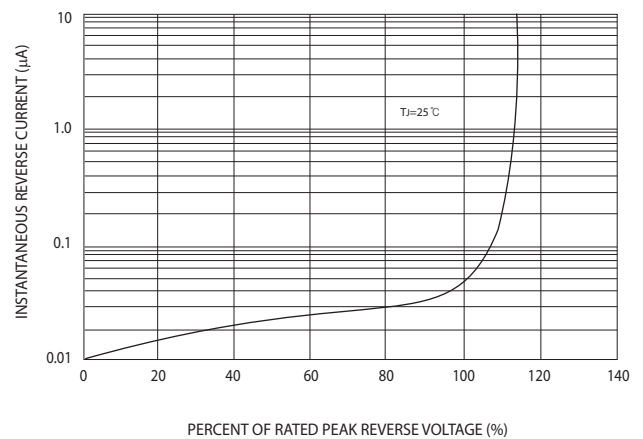


FIG.5-TYPICAL JUNCTION CAPACITANCE

