

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1A1 THRU 1A7

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

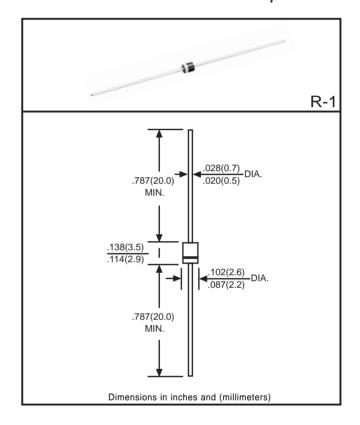
*Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

* Mounting position: Any * Weight: 0.19 gram approx.

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%.



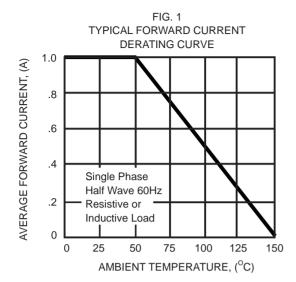
		SYMBOL	1A1	1A2	1A3	1A4	1A5	1A6	1A7	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T _A = 50°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C	l _R	5.0							μAmps
	@ T _A =100°C	IK	50							
Typical Junction Capacitance (Note 1)		CJ	15						pF	
Typical Thermal Resistance (Note 2)		Reja	50							°C/W
Operating and Storage Temperature Range		T _J ,T _{STG}	-55 to +150							°C

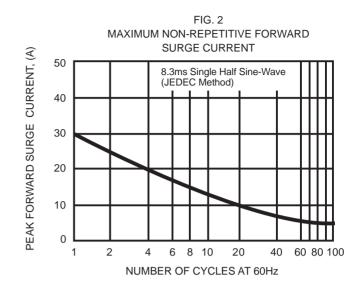
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

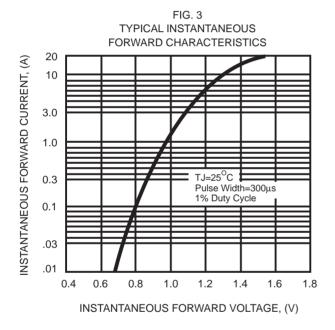
Note 2: Typical thermal resistance from junction to ambient.

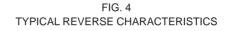
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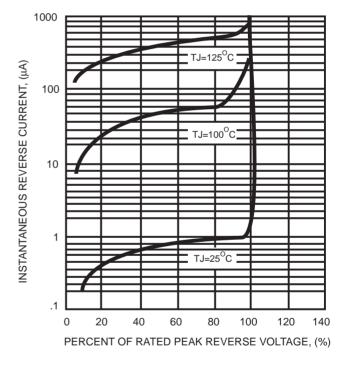
RATING AND CHARACTERISTIC CURVES (1A1 THRU 1A7)

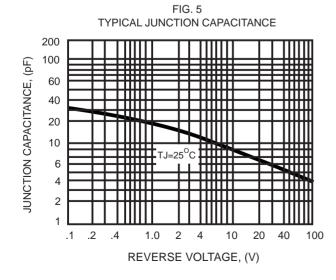












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