

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

10A05 THRU 10A10

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 10 Amperes

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

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

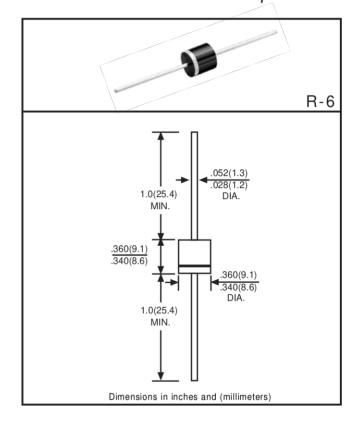
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 2.08 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%.



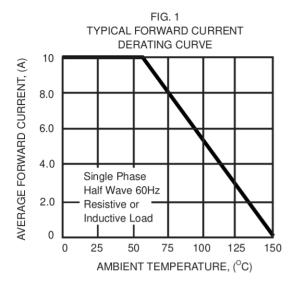
		SYMBOL	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T _A = 60°C		lo	10							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		lғsм	400						Amps	
Maximum Instantaneous Forward Voltage at 10 A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C		10						– μ A mps	
	@ T _A =100°C	l _R	500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T _L = 75°C			50							
Typical Junction Capacitance (Note 1)		Сл	150							pF
Typical Thermal Resistance (Note 2)		Rej a	10							°C/W
Operating and Storage Temperature Range		T _J ,Tstg	-55 to +150							°C

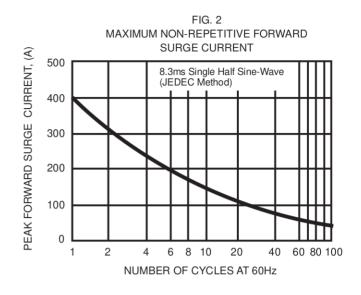
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

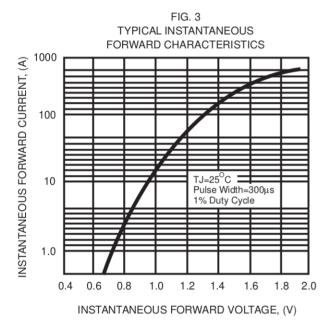
Note 2: Typical thermal resistance from junction to ambient.

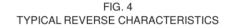
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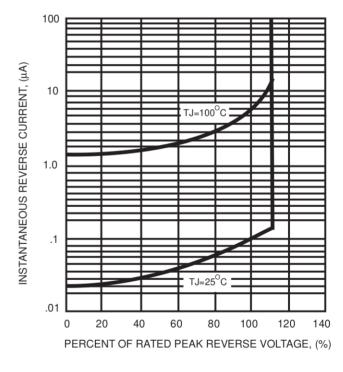
RATING AND CHARACTERISTIC CURVES (10A05 THRU 10A10)

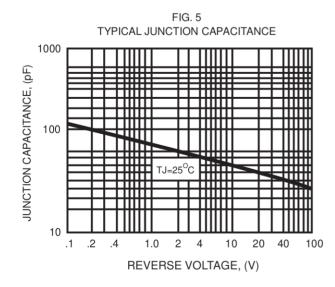












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