10A05 THRU 10A10

SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

FEATURES

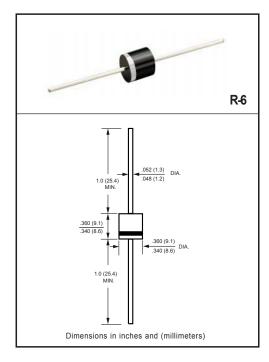
- * High surge current capability
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Low lost

MECHANICAL DATA

- * Case: Molded plastic black body
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 2.08 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	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	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	I ₀	10						Amps	
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	400						Amps	
Typical Thermal Resistance (Note 3)	R ₀ JA	9						°C/W	
Typical Junction Capacitance (Note 1)	CJ	135							pF
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							٥C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

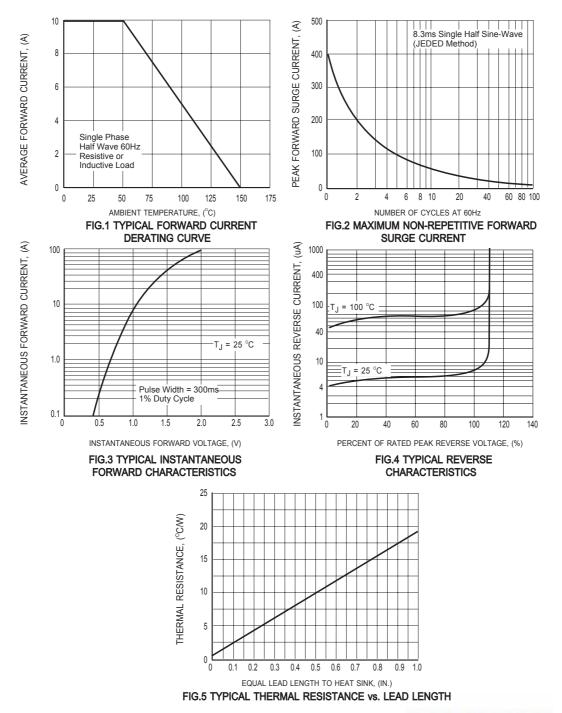
CHARACTERISTICS		SYMBOL	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum Forward Voltage at 10A DC		V _F				1.1				Volts
maximum 20 / trorago retrores current at	@T _A = 25°C		10							uAmps
	@T _A = 100°C	l _R	100							
Maximum Full Load Reverse Current Average Full Cycle			50							

NOTES: 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Thernal Resistance: At 9.5mm lead lengths, PCB mounted.

2007-5 REV:O

RATING AND CHARACTERISTICS CURVES (10A05 THRU 10A10)





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