10A05 THRU 10A10



10.0 AMP SILICON RECTIFIERS



FEATURES

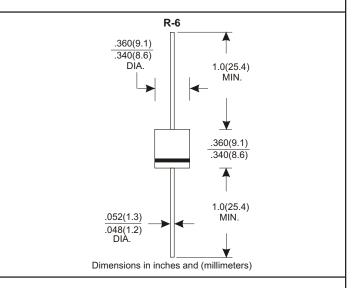
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 50 to 1000 Volts **CURRENT**

10.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	10.	0A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current						•	•		
.375"(9.5mm) Lead Length at Ta=50°C		10.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		400							Α
Maximum Instantaneous Forward Voltage at 10.0A		1.0							V
Maximum DC Reverse Current Ta=2	.5°C				10.0				μА
at Rated DC Blocking Voltage Ta=	00℃				400				μА
Typical Junction Capacitance (Note 1)		150							pF
Typical Thermal Resistance RθJA (Note 2)		10							°C/W
Operating Temperature Range T _J		-65—+150							°C
Storage Temperature Range Tsrg		-65—+150							°C

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

RATING AND CHARACTERISTIC CURVES (10A05 THRU 10A10)

FIG.1-TYPICAL FORWARD

CHARACTERISTICS

500

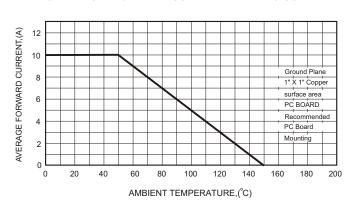
40

40

Tj=25°C

Pulse Width 300us
1% Duty Cycle

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE



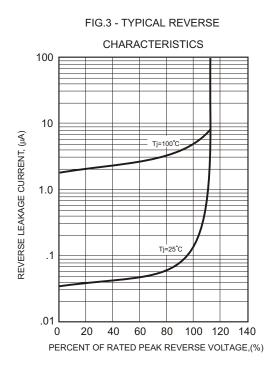


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

