Topdiode Manufacturing Company Limited



6A05 THRU 6A10 VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Amperes **6.0 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
- * Weight: 1.65 grams * Both normal and Pb free product are available:
- * Normal:80~95%Sn,5~20%Pb
- * Pb free:99 Sn above can meet Rohs enviroment substance directive request

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

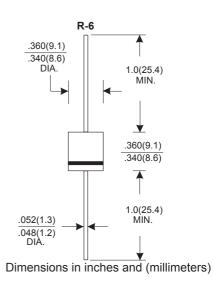
Rating 25 C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	6A05	6A1	6A2	6A4	6A6	6A8	6A10	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=60 °C	6.0							А
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)	240						А	
Maximum Instantaneous Forward Voltage at 6.0A	0.95					V		
Maximum DC Reverse Current Ta=25 °C	10.0							μA
at Rated DC Blocking Voltage Ta=100 °C	400							μA
Typical Junction Capacitance (Note 1)		100						
Typical Thermal Resistance RθJA (Note 2)		10					°C/W	
Operating and Storage Temperature Range TJ, Tstg		-65+150						°C

NOTES:

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.







_ Capacitors

