

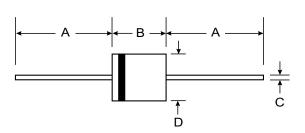
### **6.0A SILICON RECTIFIER**

#### **Features**

- High Surge Current Capability
- Low Leakage and Forward Voltage Drop

# **Mechanical Data**

- Case: R-6, Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Indicates Cathode
- Approx. Weight: 2.1 grams
- Plastic Material UL Flammability Classification 94V-0

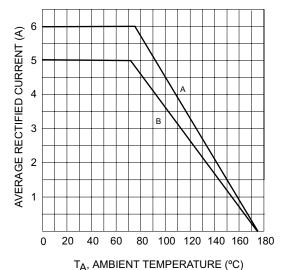


R-6							
Dim	Min	Max					
Α	25.40	_					
В	8.60	9.10					
С	1.20	1.30					
D	8.60	9.10					
All Dimensions in mm							

# Maximum Ratings and Electrical Characteristics @25°C unless otherwise specified

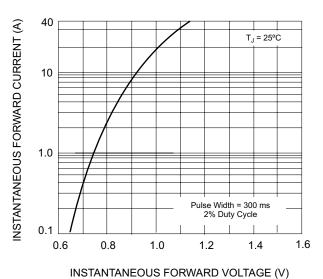
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, halfwave, 60Hz, resistive or inductive load.

Characteristic	Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
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 9.5mm lead length @ T <sub>A</sub> = 75°C (See Fig. 1)	I <sub>(AV)</sub>	6.0						Α	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		400						А	
Maximum Instantaneous Forward Current at 6.0A DC		0.90						V	
		10 100						μΑ	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175						°C	

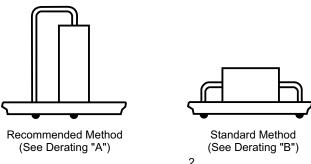


Α'

Output Current Derating Curve

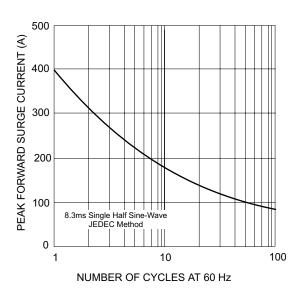


**Typical Forward Characteristics** 

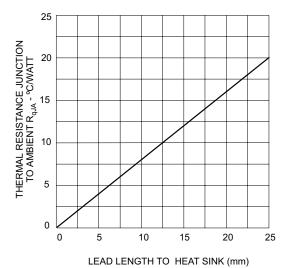


Ground Plane: 25mm<sup>2</sup> equivalent copper surface area

#### Printed Circuit Board Mounting Method



Maximum Non-Repetitive Peak Forward Surge Current



Typical Thermal Resistance (Using Standard Mounting Method "B")