
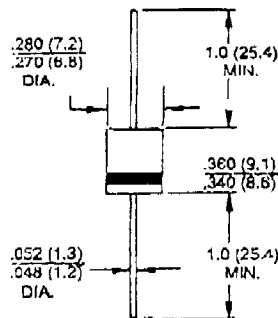


**6A05 THRU 6A100**  
6.0 AMPS. Silicon Rectifiers

	<b>Voltage Range</b> 50 to 1000 Volts <b>Current</b> 6.0 Amperes
<b>Features</b> <ul style="list-style-type: none"> <li>✧ Low forward voltage drop</li> <li>✧ High current capability</li> <li>✧ High reliability</li> <li>✧ High surge current capability</li> </ul>	<b>R-6</b> 
<b>Mechanical Data</b> <ul style="list-style-type: none"> <li>✧ Cases: Molded plastic</li> <li>✧ Epoxy: UL 94V-O rate flame retardant</li> <li>✧ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed</li> <li>✧ Polarity: Color band denotes cathode end</li> <li>✧ High temperature soldering guaranteed: 250°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension</li> <li>✧ Weight: 1.65 grams</li> </ul>	Dimensions in Inches and (millimeters)

**Maximum Ratings and Electrical Characteristics**

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

Type Number	6A05	6A10	6A20	6A40	6A60	6A80	6A100	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 @ T <sub>A</sub> = 60°C	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	250							A
Maximum Instantaneous Forward Voltage @ 6.0A	0.95							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	10 400							uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375" (9.5mm) Lead Length @ T <sub>A</sub> =75°C	50							uA
Typical Junction Capacitance ( Note 1 )	100							pF
Typical Thermal Resistance R θ JA ( Note 2 )	10							°C/W
Operating Temperature Range T <sub>J</sub>	-65 to +125							°C
Storage Temperature Range T <sub>STG</sub>	-65 to +150							°C

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.  
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.



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