

6A05 THRU **6A100**

6.0 AMPS. Silicon Rectifiers

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Voltage Range 50 to 1000 Volts Current 6.0 Amperes

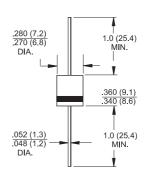
R-6

Features

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

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 1.65 grams



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	Symbol	6A05	6A10	6A20	6A40	6A60	6A80	6A100	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length $@T_A = 60^{\circ}C$	I _(AV)	6.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250							А
Maximum Instantaneous Forward Voltage @ 6.0A	V _F	0.95							V
Maximum DC Reverse Current @ $T_A=25^{\circ}$ C at Rated DC Blocking Voltage @ $T_A=100^{\circ}$ C	I _R	10 400							uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length $@T_A=75^{\circ}C$	HTIR	50							uA
Typical Junction Capacitance (Note 1)	Cj	90						pF	
Typical Thermal Resistance (Note 2)	$R\theta_{JA}$	35						C/W	
Operating Temperature Range	TJ	-65 to +150						C	
Storage Temperature Range	T _{STG}	-65 to +150						Ç	

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

2. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.



