

SILICON RECTIFIERS

6A05 THRU 6A100

6.0 AMPS. Silicon Rectifiers

Features

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

Mechanical Data

Cases: R-6 Molded Plastic

Epoxy: UL 94V-0 rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

Polarity: Color band denotes cathode end

High temperature soldering guaranteed:250 /10 seconds/.375"(9.5mm) lead lengths at 5 lbs., (2.3kg) tension

Weight: 1.65 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 Ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, 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 0.375"(9.5mm) Lead length	6.0							Α
@Ta=60								
Peak Forward Surge Current, 8.3ms Single	250							
Half Sine-wave Superimposed on Rated								Α
Load (JEDEC method)								
Maximum Instantaneous Forward Voltage	0.95							v
@6.0A								•
Maximum DC Reverse Current at Rated DC	10 (@T _A =25)							μΑ
Blocking Voltage	400 (@Ta=100)							μΑ
Maximum Full Load Reverse Current, Full								
Cycle Average .375"(9.5mm) Lead Length	50							μΑ
@TA=75								
Typical Junction Capacitance (Note 1)	100							pF
Typical Thermal Resistance R JA(Note 2)	10							/W
Operating Temperature Range TJ	-65 to +125							
Storage Temperature Range Tstg	-65 to +150							

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.



RATINGS AND CHARACTERISTIC CURVES (6A05 THRU 6A100)











