



6A05 THRU 6A100

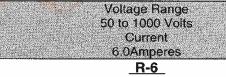
6.0 AMPS. Silicon Rectifiers

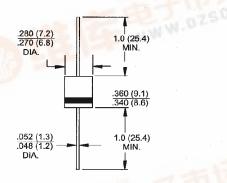
Features

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

Mechanical Data

- Cases: 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: 250°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	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 _A = 60°C				6.0	L TH		WW.	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I.R		-N/	250				A.
Maximum Instantaneous Forward Voltage @ 6.0A	77.	Neg.		0.95				٧
Maximum DC Reverse Current @ T _A =25℃	300			10				uA
at Rated DC Blocking Voltage @ T₄=100℃	400							uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length @T _A =75°C	50							uA
Typical Junction Capacitance (Note 1)	100							рF
Typical Thermal Resistance R $ heta$ JA (Note 2)	10							°C/W
Operating Temperature Range T _J	-65 to +125							$^{\circ}$
Storage Temperature Range T _{STG}	-65 to +150							$^{\circ}$

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.





