# 6A05 THRU 6A10



# GENERAL PURPOSE PLASTIC SILICON RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 6.0 AMPERE

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### **FEATURES**

· High surge current capability

· Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.

· Void-free Plastic in a R-6 package.

· High current operation 6.0 ampere at T<sub>A</sub>=60

· Exceeds environmental standards of MIL-S-19500/228

### **MECHANICAL DATA**

Case: Molded plastic, R-6

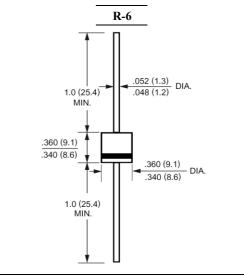
Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.07ounce, 2.1gram



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_A$ =60	I <sub>(AV)</sub>	6.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	$I_{FSM}$	I <sub>FSM</sub> 400							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	$V_{\mathrm{F}}$	1.1							Volts
at 6.0A DC and 25	V F								
Maximum Reverse Current at T <sub>A</sub> =25	т.	10.0 1000							uAmp
at Rated DC Blocking Voltage T <sub>A</sub> =100	$I_R$								
Typical Junction Capacitance (Note 1)	$C_{J}$	150							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10							/ <b>W</b>
Operating Junction Temperature Range	$T_{J}$	-55 to +150							
Storage Temperature Range	Tstg	-55 to +150							

#### NOTES:

- 1- Measured at 1  $MH_Z$  and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted with 1.1x1.1" (30x30mm)copper pads.



### RATINGS AND CHARACTERISTIC CURVES

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