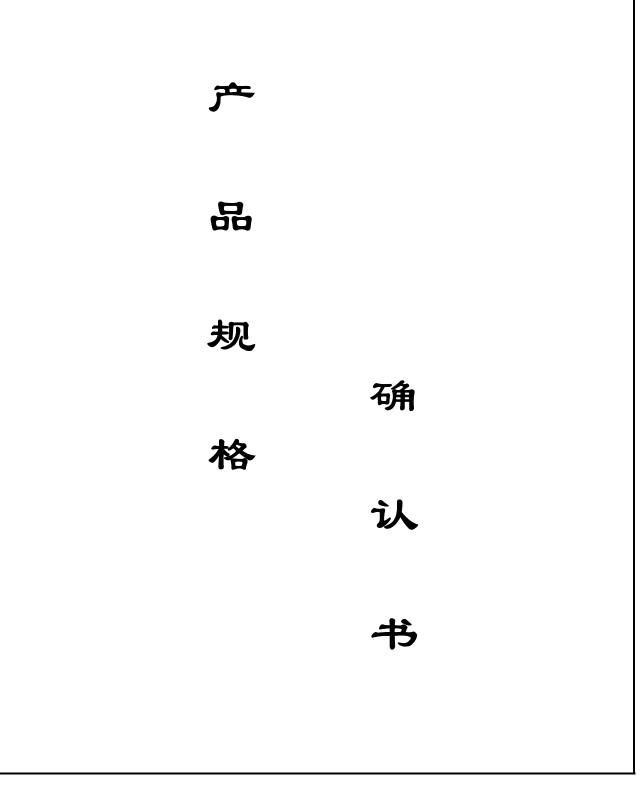
# 6AX SERIES

**GENERAL PURPOSE PLASTIC SILICON RECTIFIER** 

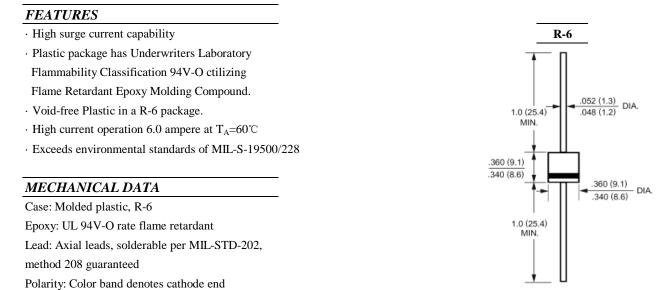


## 6A05 THRU 6A10

GENERAL PURPOSE PLASTIC SILICON RECTIFIER

### REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 6.0 AMPERE



Maximum Ratings and Electrical Characteristics

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave,  $60H_7$ , resistive or inductive load.

For capacitive load, derate current by 20%.

Mounting position: Any Weight: 0.07ounce, 2.1gram

	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	T	6.0							Amp	
.375''(9.5mm) Lead Length at T <sub>A</sub> =60°C	I <sub>(AV)</sub>									
Peak Forward Surge Current,										
8.3ms single half-sine-wave	I <sub>FSM</sub> 400							Amp		
superimposed on rated load (JEDEC method)										
Maximum Forward Voltage	V	1.1							Volts	
at 6.0A DC and 25°C	$V_{\rm F}$									
Maximum Reverse Current at T <sub>A</sub> =25°C	т	10.0								
at Rated DC Blocking Voltage $T_A=100$ °C	IR	I <sub>R</sub> 100							uAmp	
Typical Junction Capacitance (Note 1)	CJ	150							pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10							°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							ĉ	
Storage Temperature Range	Tstg	-55 to +150							C	

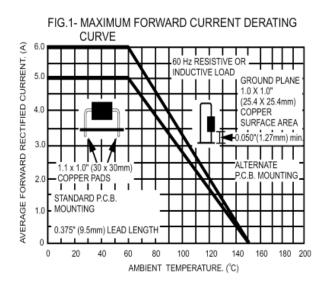
#### NOTES:

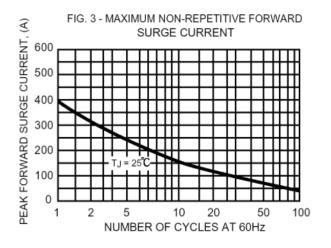
1- Measured at 1  $\ensuremath{\text{MH}_{Z}}\xspace$  and applied reverse voltage of 4.0 VDC.

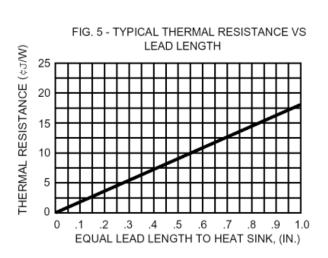
2- Thermal Resistance From Junction to Ambient 0.375" (9.5mm) lead length P.C.B. Mounted with 1.1x1.1" (30x30mm)copper pads.

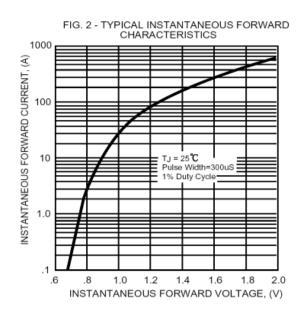
Dimensions in inches and (millimeters)

#### RATINGS AND CHARACTERISTIC CURVES









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FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

