6AX SERIES

GENERAL PURPOSE PLASTIC SILICON RECTIFIER

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6A05 THRU 6A10

GENERAL PURPOSE PLASTIC SILICON RECTIFIER



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

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_A=60

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

MECHANICAL DATA

Case: Molded plastic, R-6

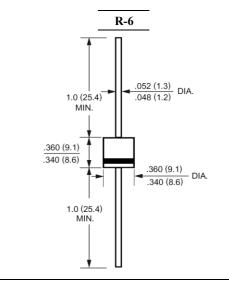
Epoxy: UL 94V-O rate flame retardant

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%.

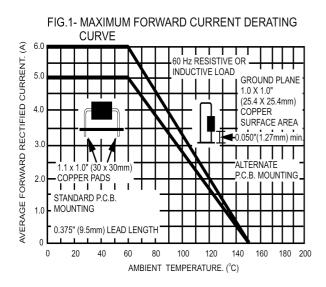
	Symbols	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm)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

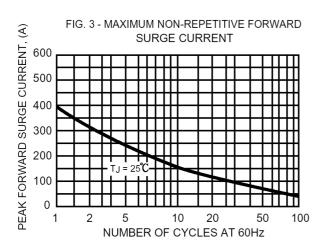
NOTES

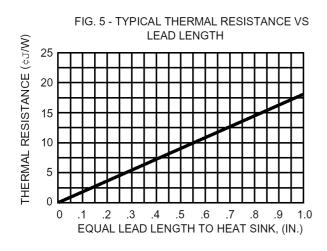
- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted with 1.1x1.1" (30x30mm)copper pads.

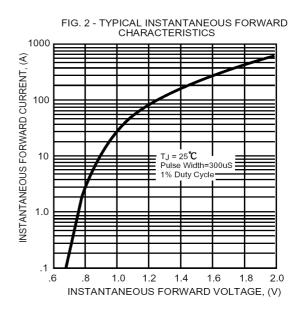


RATINGS AND CHARACTERISTIC CURVES









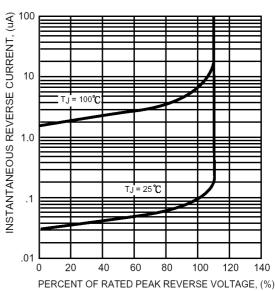


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS