

6A05 THRU 6A10

GENERAL PURPOSE PLASTIC SILICON RECTIFIERS

Reverse Voltage – 50 to 1000 V

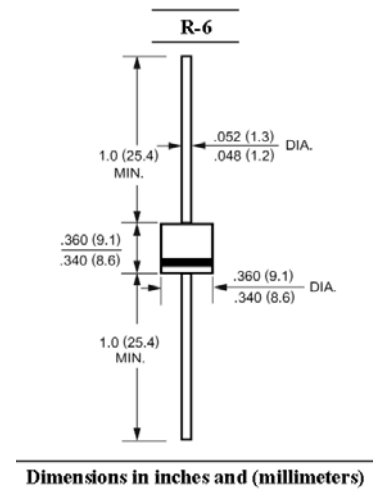
Forward Current – 6 A

Features

- High surge current capability

Mechanical Data

- Case: Molded plastic, R-6
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Maximum Ratings and Electrical Characteristics

Ratings 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%.

Parameter	Symbols	6A05	6A1	6A2	6A4	6A5	6A6	6A8	6A10	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at $T_A = 60$ °C	$I_{F(AV)}$	6								A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	400								A
Maximum Forward Voltage at 6 A	V_F	1.1								V
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	$T_A = 25$ °C 10 $T_A = 100$ °C 1000								μA
Typical Junction Capacitance ¹⁾	C_J	150								pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	10								°C/W
Operating Junction Temperature Range	T_J	- 55 to + 150								°C
Storage Temperature Range	T_{Stg}	- 55 to + 150								°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

²⁾ Thermal resistance from junction to ambient 0.375" (9.5 mm) lead length P.C.B mounted with 1.1 X 1.1" (30 X 30 mm) copper pads.

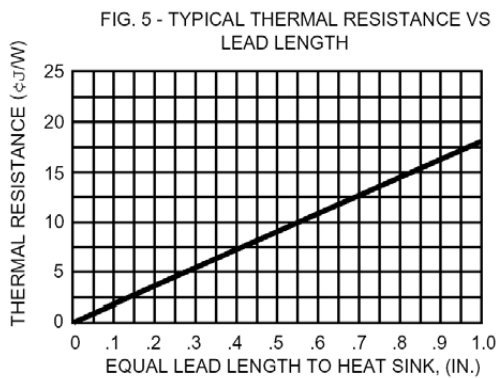
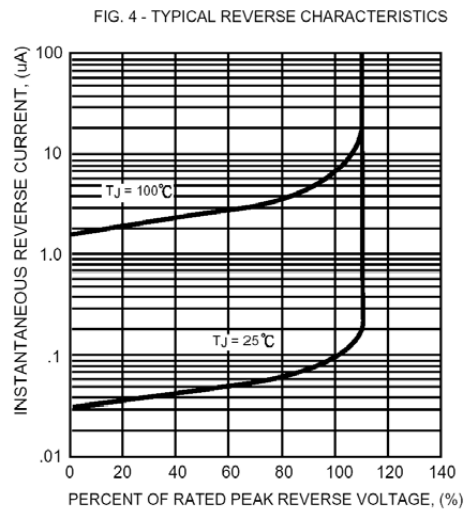
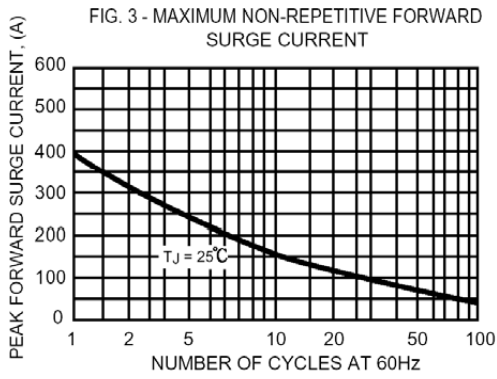
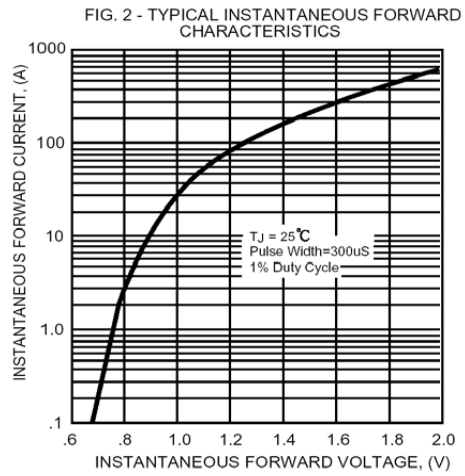
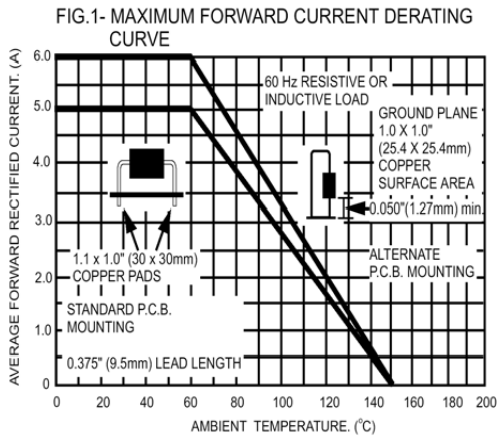
TOP DYNAMIC



ISO14001 : 2004 Certificate No. 121505007
 ISO 9001 : 2008 Certificate No. 50114012
 OHSAS 18001 : 2007 Certificate No. 05191508008
 IECQ QC 080000 Certificate No. E241000741M2

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