

Pb Free Plating Product

6A05 thru 6A10



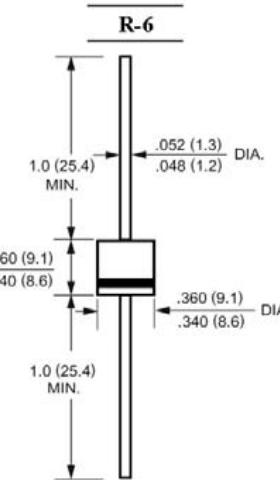
6.0 AMP.GENERAL PURPOSE RECTIFIERS

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



Dimensions in inches and (millimeters)

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	6A6	6A8	6A10	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	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 T _A = 25 °C at Rated DC Blocking Voltage T _A = 100 °C	I _R	10 1000							µA
Typical Junction Capacitance ¹⁾	C _J	150							pF
Typical Thermal Resistance ²⁾	R _{θJA}	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.

