

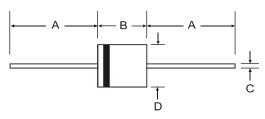
6A05 - 6A10

Features

- High Surge Current Capability
- Low Leakage and Forward Voltage Drop
- Lead Free Finish, RoHS Compliant (Note 1)

Mechanical Data

- Case: R-6
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Axial Leads, Solderable per MIL-STD-202, Method 208 @3
- Polarity: Color Band Indicates Cathode Ordering Information: See Page 3 Approximate Weight: 2.1 grams



R-6						
Dim	Min	Max				
Α	25.40	-				
В	8.60	9.10				
С	1.20	1.30				
D	8.60	9.10				
All Dimensions in mm						

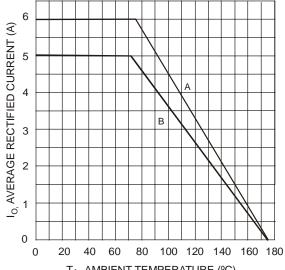
Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, halfwave, 60Hz, resistive or inductive load.

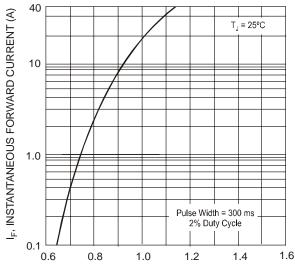
Characteristic	Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm lead length @ $T_A = 75^{\circ}$ C (See Fig. 1)	I _(AV)	6.0					А		
Peak Forward Surge Current 8.3 ms single half sine- wave superimposed on rated load	I _{FSM}				400				А
Maximum Instantaneous Forward Voltage at 6.0A DC	V_{FM}	0.90					V		
Maximum DC Reverse Current $@T_A = 25^{\circ}C$ at Rated Blocking Voltage $@T_A = 100^{\circ}C$	I _{RM}	10 100					μA		
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175					°C		

Notes: 1. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.

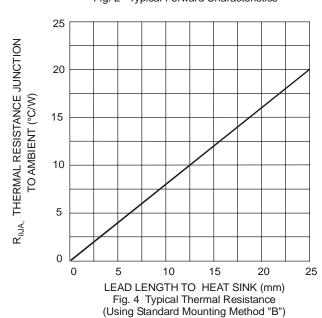




T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Output Current Derating Curve

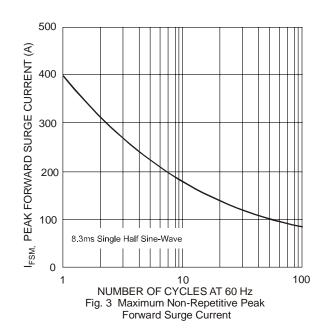


 $V_{\rm F,}$ INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



Recommended Method (See Derating "A") Standard Method (See Derating "B") Ground Plane: 25mm² equivalent copper surface area

Printed Circuit Board Mounting Method





Ordering Information (Note 2)

Device	Packaging	Shipping			
6A05-T	R-6	500/Tape & Reel, 13-inch			
6A1-T	R-6	500/Tape & Reel, 13-inch			
6A2-T	R-6	500/Tape & Reel, 13-inch			
6A4-T	R-6	500/Tape & Reel, 13-inch			
6A6-T	R-6	500/Tape & Reel, 13-inch			
6A8-T	R-6	500/Tape & Reel, 13-inch			
6A10-T	R-6	500/Tape & Reel, 13-inch			

Notes: 2. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02008.pdf.

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