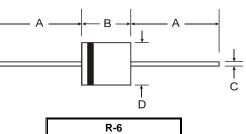


Features

- 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



6405 - 6410 6.0A SILICON RECTIFIER

R-0					
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					

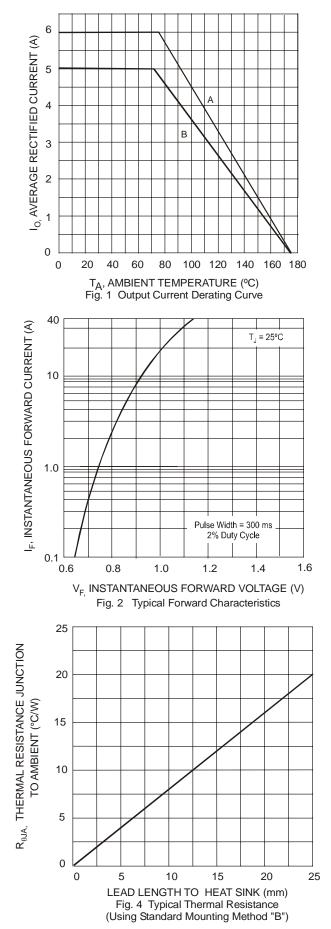
Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

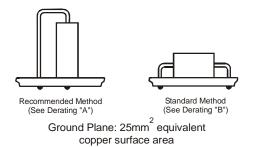
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, halfwave, 60Hz, resistive or inductive load.

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	Tj, T _{STG}			-	65 to +17	5			°C

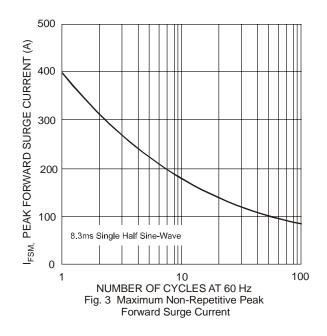
Notes: 1. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.







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	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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