

Description

- High Surge Current Capability
- Low Leakage and Forward Voltage Drop
- **Lead Free Finish, RoHS Compliant (Notes 1 & 2)**

Mechanical Data

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

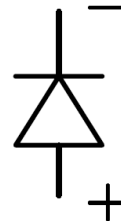
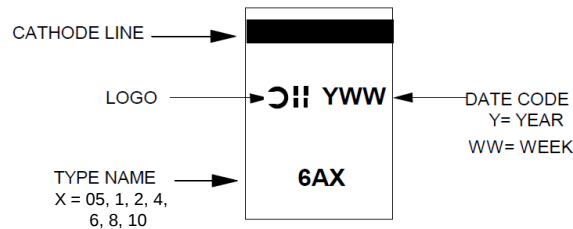
Ordering Information (Note 3)

Part Number	Case	Packaging
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:
1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
 2. See <https://www.diodes.com/quality/lead-free/> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 3. For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.

Marking Information

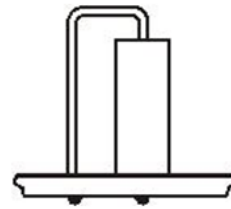
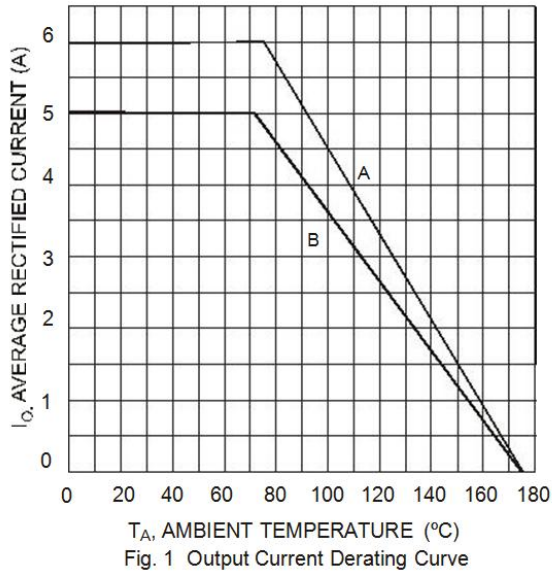
B. Marking on the semiconductor :



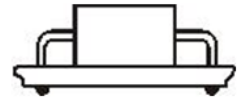
Maximum Ratings and Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

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°C (See Figure 1)	I _(AV)	6.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	400							A
Maximum Instantaneous Forward Voltage at 6.0A DC	V _{FM}	0.90							V
Maximum DC Reverse Current @ T _A = +25°C at Rated Blocking Voltage @ T _A = +100°C	I _{RM}	10 100							μA
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175							°C



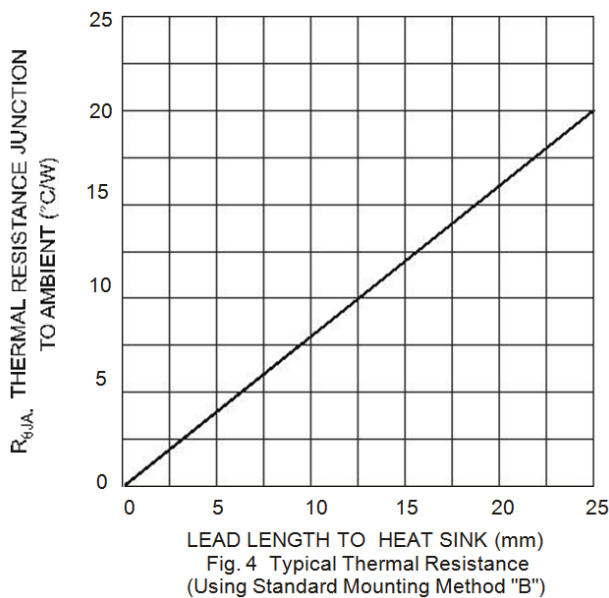
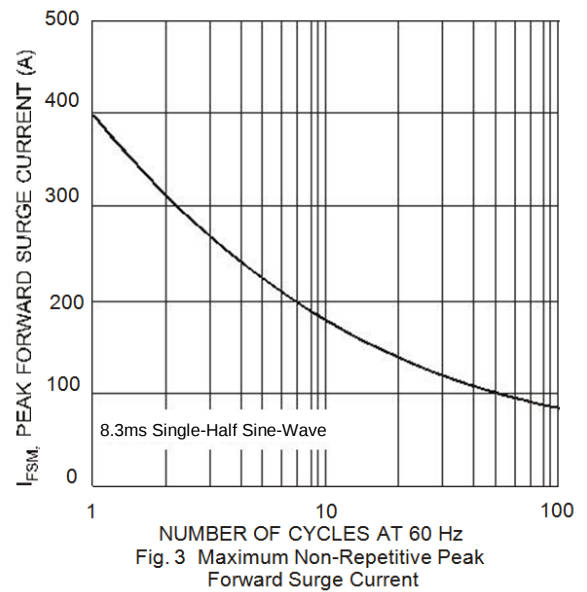
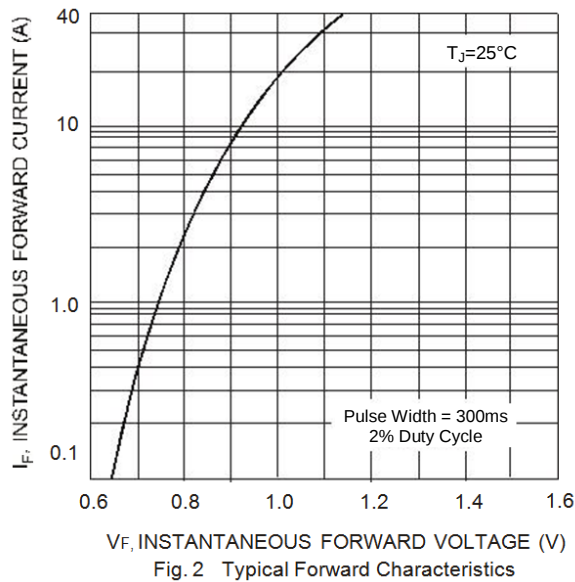
Recommended Method
(See Derating "A")



Standard Method
(See Derating "B")

Ground Plane: 25mm² equivalent
copper surface area

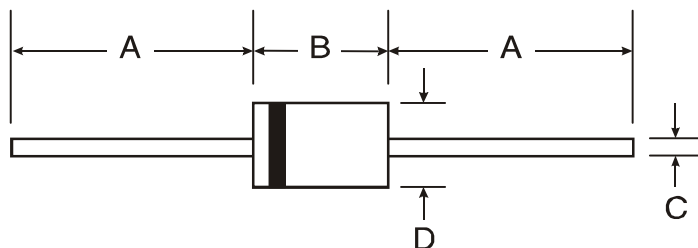
Printed Circuit Board Mounting Method



Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

R-6



R-6		
Dim	Min	Max
A	25.40	-
B	8.60	9.10
C	1.20	1.30
D	8.60	9.10
All Dimensions in mm		

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