# 山东迪一电子科技有限公司



# 6A05 - 6A10 🚱 🖍

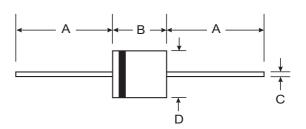
### 6.0A SILICON RECTIFIER

#### 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 Bright Tin. Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Indicates Cathode
- Ordering Information: See Last Page
- Approximate Weight: 2.1 grams



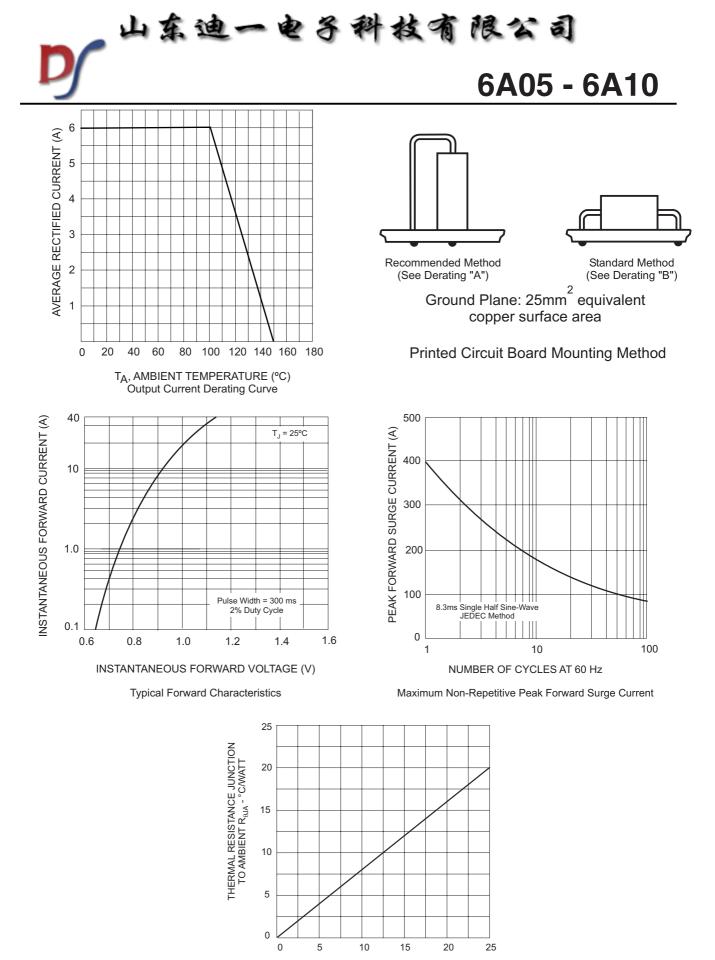
| R-6                  |       |      |  |  |  |  |  |
|----------------------|-------|------|--|--|--|--|--|
| Dim                  | Min   | Мах  |  |  |  |  |  |
| Α                    | 25.40 | —    |  |  |  |  |  |
| В                    | 8.60  | 9.10 |  |  |  |  |  |
| С                    | 1.20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

## Maximum Ratings and Electrical Characteristics @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 <sub>RRM</sub>  | 50          | 100 | 200 | 400 | 600 | 800 | 1000 | V    |
| Maximum RMS Voltage   |                   | 35          | 70  | 140 | 280 | 420 | 560 | 700  | V    |
| Maximum DC Blocking Voltage   |                   | 50          | 100 | 200 | 400 | 600 | 800 | 1000 | V    |
| Maximum Average Forward Rectified Current<br>9.5mm lead length @ $T_A = 75^{\circ}C$ (See Fig. 1)       | I <sub>(AV)</sub> | 6.0         |     |     |     |     |     | А    |      |
| Peak Forward Surge Current 8.3 ms single half<br>sine-wave superimposed on rated load<br>(JEDEC method) |                   | 400         |     |     |     |     |     |      | А    |
| Maximum Instantaneous Forward Current at 6.0A DC  | VF                | 0.90        |     |     |     |     |     |      | V    |
|   |                   | 10<br>100   |     |     |     |     |     | μA   |      |
| Operating and Storage Temperature Range   | TJ,<br>Tstg       | -65 to +150 |     |     |     |     | °C  |      |      |

Notes: 1. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



LEAD LENGTH TO HEAT SINK (mm)

Typical Thermal Resistance (Using Standard Mounting Method "B")