imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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10A01 - 10A07

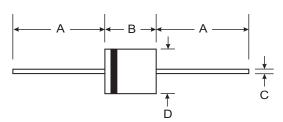
10A RECTIFIER

Features

- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 600A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 3)

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. Plated Leads Solderable per MIL-STD-202, Method 208 (C3)
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: 2.1 grams (approximate)



| 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 @ T_A = 25°C unless otherwise specified

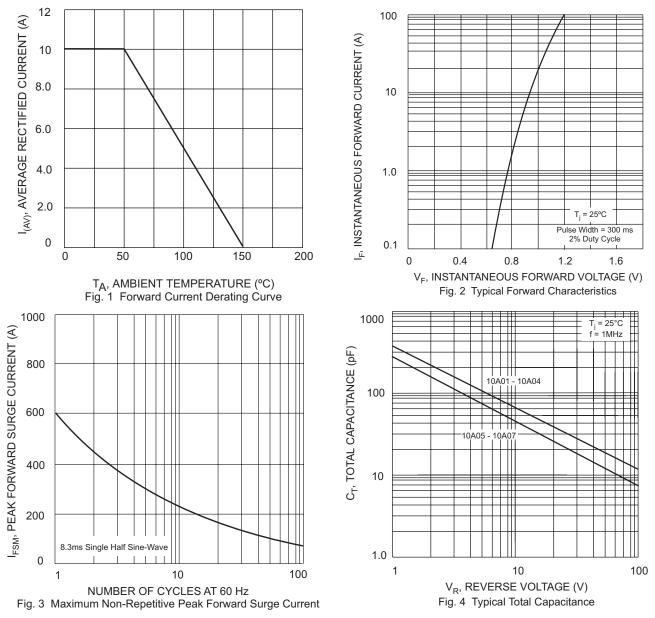
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | | Symbol | 10A01 | 10A02 | 10A03 | 10A04 | 10A05 | 10A06 | 10A07 | Unit |
|--|---|--|-------------|-------|-------|-------|-------|-------|-------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | | V _{RRM} V _{RWM} V _R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) | @ T _A = 50°C | lo | 10 | | | | | А | | |
| Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | | I _{FSM} | 600 | | | | | А | | |
| Forward Voltage | @ I _F = 10A | V _{FM} | 1.0 | | | | V | | | |
| 10Peak Reverse Current at Rated DC Blocking Voltage | $\begin{tabular}{lllllllllllllllllllllllllllllllllll$ | I _{RM} | 10 100 | | | | μA | | | |
| Typical Total Capacitance (Note 2) | | CT | | 15 | 50 | | | 80 | | pF |
| Typical Thermal Resistance Junction to Ambient | | R _{0JA} | 10 | | | | | °C/W | | |
| Operating and Storage Temperature Range | | T _{j,} T _{STG} | -65 to +150 | | | | | °C | | |

Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.





Ordering Information (Note 4)

| Device | Packaging | Shipping | | | | |
|---------|-----------|--------------------------|--|--|--|--|
| 10A01-T | R-6 | 500/Tape & Reel, 13-inch | | | | |
| 10A02-T | R-6 | 500/Tape & Reel, 13-inch | | | | |
| 10A03-T | R-6 | 500/Tape & Reel, 13-inch | | | | |
| 10A04-T | R-6 | 500/Tape & Reel, 13-inch | | | | |
| 10A05-T | R-6 | 500/Tape & Reel, 13-inch | | | | |
| 10A06-T | R-6 | 500/Tape & Reel, 13-inch | | | | |
| 10A07-T | R-6 | 500/Tape & Reel, 13-inch | | | | |

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf



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