

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- High Reliability
- Low Leakage
- Low Forward Voltage Drop
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Polarity: Indicated by Cathode Band

1A1 THRU 1A7

1 Amp Miniature Plastic Silicon Rectifier 50 to 1000 Volts

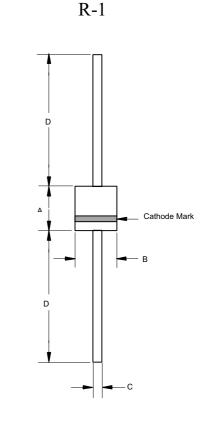
Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 60°C/W Junction to Ambient

| | | Maximum | | |
|--------------------------|-------------------|-----------|---------|-------------|
| MCC Catalog Number | Device Marking | Recurrent | Maximum | Maximum |
| | | Peak | RMS | DC Blocking |
| | | Reverse | Voltage | Voltage |
| | | Voltage | | |
| 1A1 | 1A1 | 50V | 35V | 50V |
| 1A2 | 1A2 | 100V | 70V | 100V |
| 1A3 | 1A3 | 200V | 140V | 200V |
| 1A4 | 1A4 | 400V | 280V | 400V |
| 1A5 | 1A5 | 600V | 420V | 600V |
| 1A6 | 1A6 | 800V | 560V | 800V |
| 1A7 | 1A7 | 1000V | 700V | 1000V |
| | | | | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 1.0A | T _J =25°C |
|---|--------------------|-------|---|
| Peak Forward Surge Current | I _{FSM} | 30.0A | 8.3ms half sine |
| Maximum Instantaneous Forward Voltage | V _F | 1.1V | I _{FM} =1.0A T _A =25°C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | | TJ=25°C TJ=100°C |
| Typical Junction Capacitance | CJ | 15pF | Measured at 1.0MHz, V _R =4.0V |



| DIMENSIONS | | | | | | | | |
|------------|--------|-------|-------|------|------|--|--|--|
| DIM | INCHES | | ММ | | NOTE | | | |
| | MIN | МАХ | MIN | мах | NOTE | | | |
| А | 0.116 | 0.140 | 2.90 | 3.50 | | | | |
| В | 0.091 | 0.102 | 2.30 | 2.60 | | | | |
| С | 0.020 | 0.024 | 0.50 | 0.60 | | | | |
| D | 0.787 | | 20.00 | | | | | |

Note: 1. Valid provided that electrodes are kept at ambient temperature

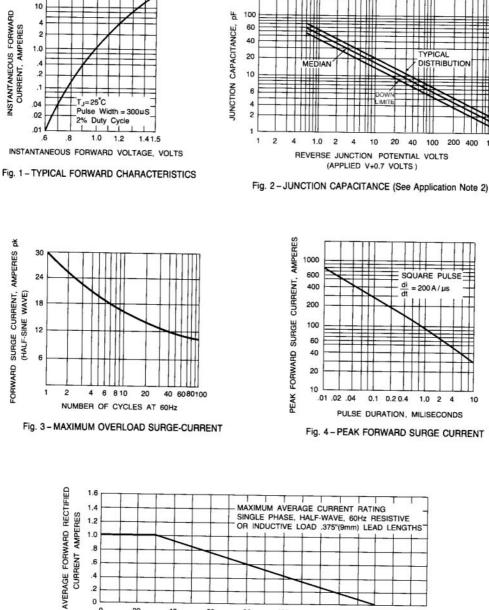
www.mccsemi.com

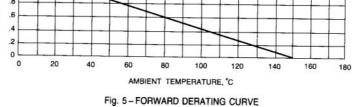
1A1 thru 1A7

20



1000







Revision: 4

2 of 3

2006/05/01



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