

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 and MSL Rating 1
- Polarity: Indicated by Cathode Band
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates RoHS Compliant. See ordering information)

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

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking 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

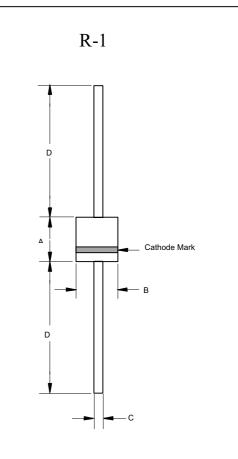
| Average Forward Current | I _{F(AV)} | 1.0A | T _J =25°C |
|---|--------------------|-------|---|
| Peak Forward Surge Current | I _{FSM} | 30.0A | 8.3ms half sine |
| Maximum Instantaneous Forward Voltage | V _F | 1.1V | I _{FM} =1.0A T _A =25°C |
| Maximum DC Reverse Current At Rated DC Blocking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

1 Amp Miniature Plastic Silicon Rectifier 50 to 1000 Volts

1A1

THRU

1A7



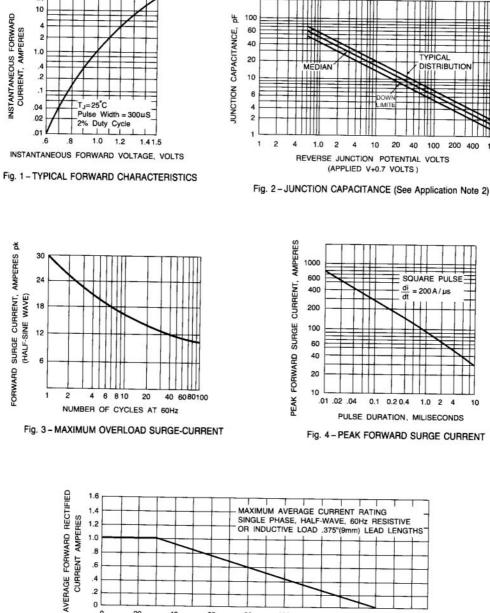
| DIMENSIONS | | | | | | | |
|------------|--------|-------|-------|------|------|--|--|
| DIM | INCHES | | ММ | | NOTE | | |
| | MIN | MAX | MIN | MAX | NOTE | | |
| А | 0.116 | 0.140 | 2.90 | 3.50 | | | |
| В | 0.091 | 0.102 | 2.30 | 2.60 | | | |
| с | 0.020 | 0.024 | 0.50 | 0.60 | | | |
| D | 0.787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

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

www.mccsemi.com

1A1 thru 1A7





AMBIENT TEMPERATURE, "C

.2

Fig. 5-FORWARD DERATING CURVE



Revision: 5

2 of 3



Ordering Information

| Device | Packing | | |
|------------------|----------------------------|--|--|
| (Part Number)-TP | Tape&Reel 5Kpcs/Reel | | |
| (Part Number)-AP | Ammo Packing;3Kpcs/AmmoBox | | |
| (Part Number)-BP | Bulk;1Kpcs/Box | | |

IMPORTANT NOTICE

Micro Commercial Components Corp. reserve the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by Micro Commercial Components Corp. are not intended for use in Medical,

Aerospace or Military Applications.

