

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2A01 THRU 2A07

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Forward Voltage Drop
- High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance (R_{θJA}) 40°C/W

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------------|-------------------|---|---------------------------|--------------------------------------|
| 2A01 | 2A01 | 50V | 35V | 50V |
| 2A02 | 2A02 | 100V | 70V | 100V |
| 2A03 | 2A03 | 200V | 140V | 200V |
| 2A04 | 2A04 | 400V | 280V | 400V |
| 2A05 | 2A05 | 600V | 420V | 600V |
| 2A06 | 2A06 | 800V | 560V | 800V |
| 2A07 | 2A07 | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

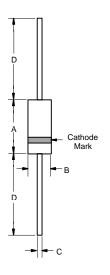
| Average Forward Current | I _{F(AV)} | 2 A | T _A = 75°C |
|---|--------------------|---------------|--|
| Peak Forward Surge Current | I _{FSM} | 60A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V _F | 1.0V | I _{FM} = 2.0A; T _A = 25°C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 5.0μA 50μA | T _A = 25°C T _A = 100°C |
| Typical Junction Capacitance | CJ | 20pF | Measured at 1.0MHz, V _R =4.0V |

^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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

2 Amp Silicon Rectifier 50 to 1000 Volts

DO-15



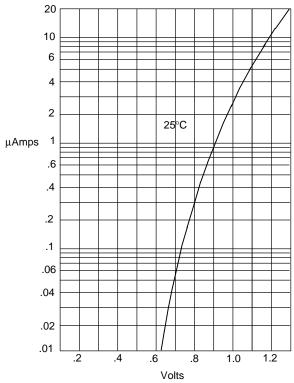
| DIMENSIONS | | | | | | | |
|------------|--------|------|-------|------|------|--|--|
| | INCHES | | MM | | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | | |
| Α | .230 | .300 | 5.80 | 7.60 | | | |
| В | .104 | .140 | 2.60 | 3.60 | | | |
| С | .026 | .034 | .70 | .90 | | | |
| D | 1.000 | | 25.40 | | | | |

2A01 thru 2A07

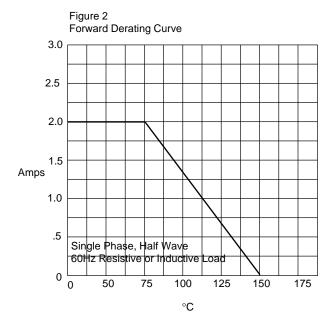
 $\cdot M \cdot C \cdot C \cdot$

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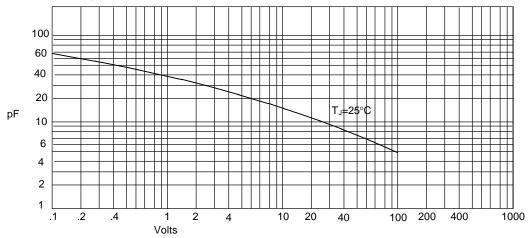
Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - MicroAmperes/ersus Instantaneous Forward Voltage - Volts





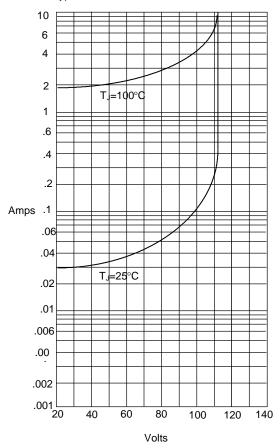


Junction Capacitance - pF*versus* Reverse Voltage - Volts

2A01 thru 2A07

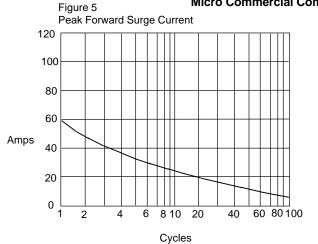


Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Current - Amps*versus* Percent Of Rated Peak Reverse Voltage - Volts

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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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Ordering Information:

| Device | Packing |
|----------------|------------------------------|
| Part Number-TP | Tape&Reel: 4Kpcs/Reel |
| Part Number-AP | Ammo Packing: 3Kpcs/Ammo Box |
| Part Number-BP | Bulk: 25Kpcs/Carton |

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