



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **BY133**

Features

- Low Current Leakage and Low Cost
- Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates Compliant. See ordering information)
- 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: 25°C/W Junction to Lead at 0.375"

Lead Length P.C.B. Mounted

| MCC | Device | Maximum | Maximum | Maximum |
|---------|---------|-----------|---------|----------|
| Catalog | Marking | Recurrent | RMS | DC |
| Number | | Peak | Voltage | Blocking |
| | | Reverse | | Voltage |
| | | Voltage | | |
| BY133 | BY133 | 1300 | 910 | 1300 |

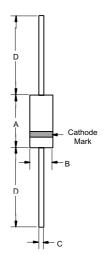
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward | I _{F(AV)} | 1.0A | T _A = 75°C | |
|--------------------|--------------------|-------|------------------------------|--|
| Current | | | | |
| Peak Forward Surge | I _{FSM} | 30A | 8.3ms, half sine | |
| Current | | | | |
| Maximum | | | | |
| Instantaneous | V_{F} | 1.1V | $I_{FM} = 1.0A;$ | |
| Forward Voltage | | | T _J = 25°C | |
| Maximum DC | | | | |
| Reverse Current At | I_{R} | 5.0µA | T _J = 25°C | |
| Rated DC Blocking | | 500μA | T _J = 100°C | |
| Voltage | | | | |
| Typical Junction | CJ | 15pF | Measured at | |
| Capacitance | | | 1.0MHz, V _R =4.0V | |

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

1 Amp Rectifier 1300 Volts

DO-41



| DIMENSIONS | | | | | | |
|------------|--------|------|-------|------|------|--|
| | | | | | | |
| | INCHES | | MM | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | |
| Α | .166 | .205 | 4.10 | 5.20 | | |
| В | .080 | .107 | 2.00 | 2.70 | | |
| С | .028 | .034 | .70 | .90 | | |
| D | 1.000 | | 25 40 | | | |

BY133

RATING AND CHARACTERISTIC CURVES





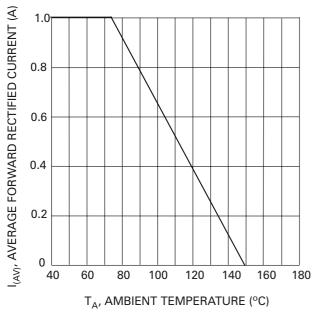


Fig. 1 Forward Current Derating Curve

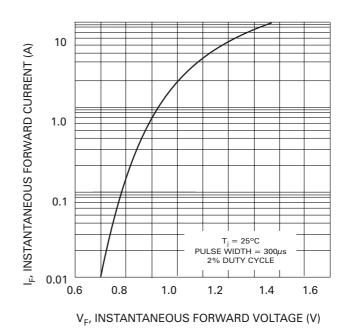


Fig. 2 Typical Forward Characteristics

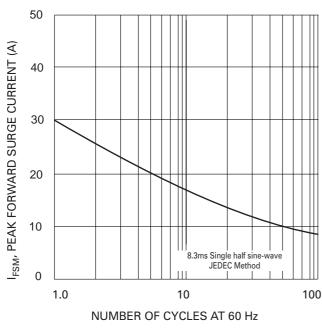


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

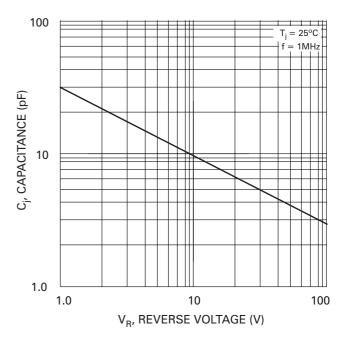


Fig. 4 Typical Junction Capacitance



Ordering Information:

| Device | Packing |
|----------------|------------------------------|
| Part Number-TP | Tape&Reel: 5Kpcs/Reel |
| Part Number-AP | Ammo Packing: 5Kpcs/Ammo Box |
| Part Number-BP | Bulk: 50Kpcs/Carton |

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