

Features

- Glass Passivated Junction
- Excellent Clamping Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

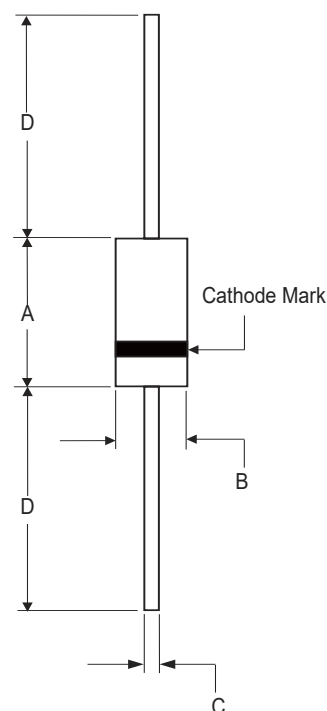
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

| Parameter | Symbol | Rating | Conditions |
|----------------------------|-----------|---------|-------------|
| Peak Forward Surge Current | I_{FSM} | 15A | Note 2 |
| Power Dissipation | P_D | 2.0W | Note 3 |
| Power Derating | | 36mW/°C | Above 75°C |
| Maximum Forward Voltage | V_F | 1.2V | $I_F=200mA$ |

- Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a
 2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.
 3. Mounted on 5.0mm² (0.013mm thick) land areas.

2.0 W Silicon Zener Diodes 5.1 to 75 Volts

DO-41



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.160 | 0.205 | 4.10 | 5.20 | |
| B | 0.080 | 0.107 | 2.00 | 2.70 | Φ |
| C | 0.028 | 0.035 | 0.70 | 0.90 | Φ |
| D | 1.000 | ----- | 25.40 | ----- | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC Part Number | Nominal Zener Voltage | Test current | Maximum Zener Impedance | | | Leakage Current | | Maximum Zener Current | MARKING CODE |
|--------------------|--------------------------|--------------|-------------------------|-------------------|----------|----------------------|-------|--------------------------|-----------------|
| | $V_Z @ I_{ZT}$ | I_{ZT} | $Z_{ZT} @ I_{ZT}$ | $Z_{ZK} @ I_{ZK}$ | I_{ZK} | I_R | V_R | I_{ZM} | |
| | V | mA | Ω | Ω | mA | $\mu A(\text{Max.})$ | V | mA | |
| 2EZ5.1D5 | 5.1 | 98 | 3.5 | 600 | 1 | 5.0 | 1.0 | 356 | 2EZ5.1D5 |
| 2EZ5.6D5 | 5.6 | 89.5 | 2.5 | 500 | 1 | 5.0 | 2.0 | 324 | 2EZ5.6D5 |
| 2EZ6.2D5 | 6.2 | 80.5 | 1.5 | 700 | 1 | 5.0 | 3.0 | 292 | 2EZ6.2D5 |
| 2EZ6.8D5 | 6.8 | 73.5 | 2.0 | 700 | 1 | 5.0 | 4.0 | 266 | 2EZ6.8D5 |
| 2EZ7.5D5 | 7.5 | 66.5 | 2.0 | 700 | 0.5 | 5.0 | 5.0 | 242 | 2EZ7.5D5 |
| 2EZ8.2D5 | 8.2 | 61 | 2.3 | 700 | 0.5 | 5.0 | 6.0 | 220 | 2EZ8.2D5 |
| 2EZ9.1D5 | 9.1 | 55 | 2.5 | 700 | 0.5 | 3.0 | 7.0 | 200 | 2EZ9.1D5 |
| 2EZ10D5 | 10 | 50 | 3.5 | 700 | 0.25 | 3.0 | 7.6 | 182 | 2EZ10D5 |
| 2EZ11D5 | 11 | 45.5 | 4.0 | 700 | 0.25 | 1.0 | 8.4 | 166 | 2EZ11D5 |
| 2EZ12D5 | 12 | 41.5 | 4.5 | 700 | 0.25 | 1.0 | 9.1 | 152 | 2EZ12D5 |
| 2EZ13D5 | 13 | 38.5 | 5.0 | 700 | 0.25 | 0.5 | 9.9 | 138 | 2EZ13D5 |
| 2EZ14D5 | 14 | 35.7 | 5.5 | 700 | 0.25 | 0.5 | 10.6 | 130 | 2EZ14D5 |
| 2EZ15D5 | 15 | 33.4 | 7.0 | 700 | 0.25 | 0.5 | 11.4 | 122 | 2EZ15D5 |
| 2EZ16D5 | 16 | 31.2 | 8.0 | 700 | 0.25 | 0.5 | 12.2 | 114 | 2EZ16D5 |
| 2EZ17D5 | 17 | 29.4 | 9.0 | 750 | 0.25 | 0.5 | 13.0 | 107 | 2EZ17D5 |
| 2EZ18D5 | 18 | 27.8 | 10 | 750 | 0.25 | 0.5 | 13.7 | 100 | 2EZ18D5 |
| 2EZ19D5 | 19 | 26.3 | 11 | 750 | 0.25 | 0.5 | 14.4 | 95 | 2EZ19D5 |
| 2EZ20D5 | 20 | 25 | 11 | 750 | 0.25 | 0.5 | 15.2 | 90 | 2EZ20D5 |
| 2EZ22D5 | 22 | 22.8 | 12 | 750 | 0.25 | 0.5 | 16.7 | 82 | 2EZ22D5 |
| 2EZ24D5 | 24 | 20.8 | 13 | 750 | 0.25 | 0.5 | 18.2 | 76 | 2EZ24D5 |
| 2EZ27D5 | 27 | 18.5 | 18 | 750 | 0.25 | 0.5 | 20.6 | 68 | 2EZ27D5 |
| 2EZ30D5 | 30 | 16.6 | 20 | 1000 | 0.25 | 0.5 | 22.5 | 60 | 2EZ30D5 |
| 2EZ33D5 | 33 | 15.1 | 23 | 1000 | 0.25 | 0.5 | 25.1 | 55 | 2EZ33D5 |
| 2EZ36D5 | 36 | 13.9 | 25 | 1000 | 0.25 | 0.5 | 27.4 | 50 | 2EZ36D5 |
| 2EZ39D5 | 39 | 12.8 | 30 | 1000 | 0.25 | 0.5 | 29.7 | 47 | 2EZ39D5 |
| 2EZ43D5 | 43 | 11.6 | 35 | 1500 | 0.25 | 0.5 | 32.7 | 43 | 2EZ43D5 |
| 2EZ47D5 | 47 | 10.6 | 40 | 1500 | 0.25 | 0.5 | 35.8 | 39 | 2EZ47D5 |
| 2EZ51D5 | 51 | 9.8 | 48 | 1500 | 0.25 | 0.5 | 38.8 | 36 | 2EZ51D5 |
| 2EZ56D5 | 56 | 9.0 | 55 | 2000 | 0.25 | 0.5 | 42.6 | 32 | 2EZ56D5 |
| 2EZ62D5 | 62 | 8.1 | 60 | 2000 | 0.25 | 0.5 | 47.1 | 29 | 2EZ62D5 |
| 2EZ68D5 | 68 | 7.4 | 75 | 2000 | 0.25 | 0.5 | 51.7 | 27 | 2EZ68D5 |
| 2EZ75D5 | 75 | 6.7 | 90 | 2000 | 0.25 | 0.5 | 56.0 | 24 | 2EZ75D5 |

Notes: TOLERANCES - Suffix indicates 5% tolerance any other tolerance will be considered as a special device.

Curve Characteristics

Fig. 1 - Power Derating Curve

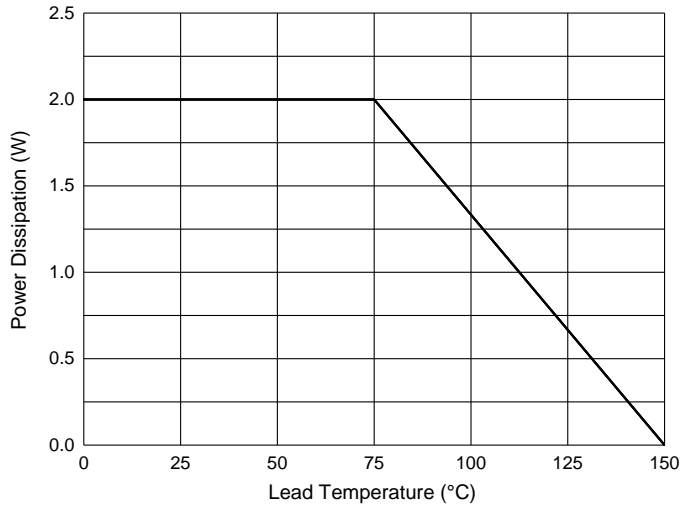


Fig. 2 - Typical Zener Breakdown Characteristics

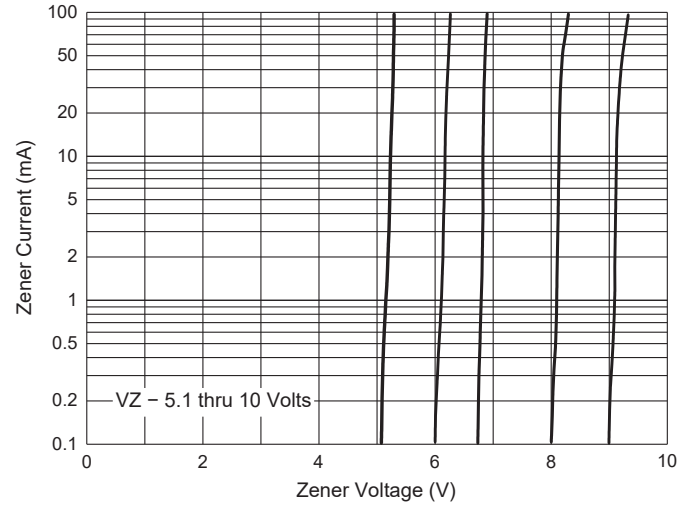
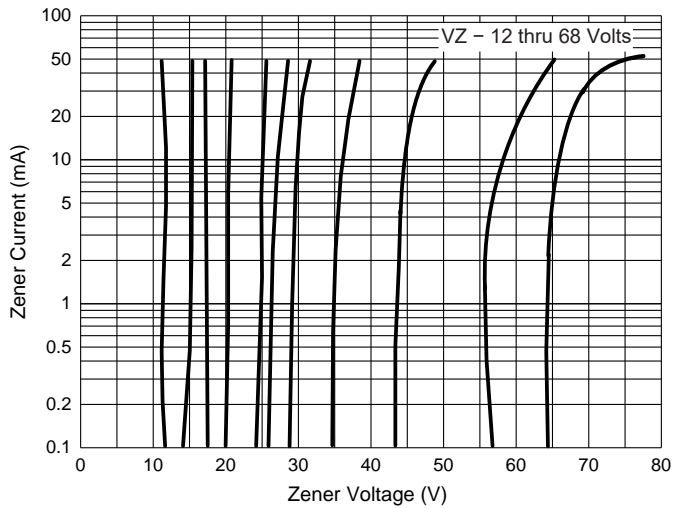


Fig. 3 - Typical Zener Breakdown Characteristics



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 |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.