

Z1150AM & Z1180AM

V_Z : 150 & 180 Volts
P_D : 1.0 Watts

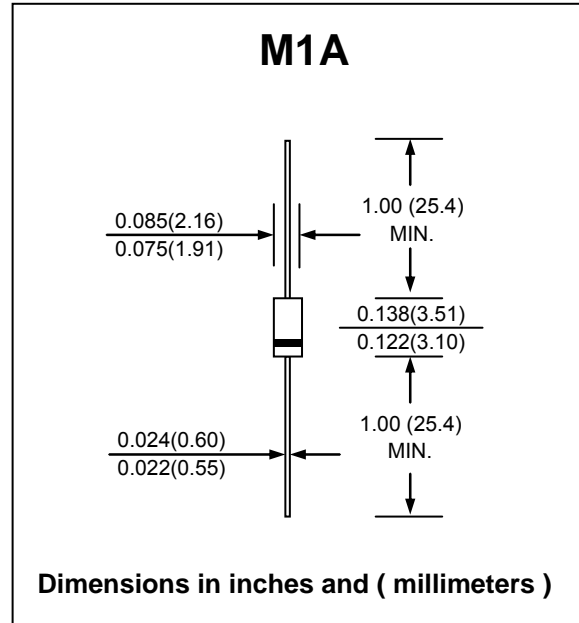
FEATURES :

- * Glass passivated chip
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : M1A Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.20 gram (approximately)

SILICON ZENER DIODES



MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

| Rating | Symbol | Value | Unit |
|--|------------------|---------------|------|
| DC Power Dissipation at T _L = 75 °C (1) | P _D | 1.0 | W |
| Maximum Forward Voltage at I _F = 200 mA | V _F | 1.2 | V |
| Junction Temperature Range | T _J | - 55 to + 175 | °C |
| Storage Temperature Range | T _{STG} | - 55 to + 175 | °C |

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

| Type. | Nominal Zener Voltage ⁽²⁾ | Test Current | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Maximum DC Zener Current |
|----------------|---|-------------------------|--|--|-------------------------|---|-----------------------|--------------------------|
| | V _Z @ I _{ZT} (V) | I _{ZT} (mA) | Z _{ZT} @ I _{ZT} (Ω) | Z _{ZK} @ I _{ZK} (Ω) | I _{ZK} (mA) | I _R @ V _R (μA) | V _R (V) | I _{ZM} (mA) |
| Z1150AM | 150 | 1.7 | 1000 | 6000 | 0.25 | 5.0 | 114.0 | 6.4 |
| Z1180AM | 180 | 1.4 | 1200 | 7000 | 0.25 | 5.0 | 136.8 | 5.2 |

Notes :

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body.
- (2) The type number listed have a standard tolerance on the nominal zener voltage of ± 5%.