

# Z1150AM & Z1180AM

**V<sub>Z</sub> : 150 & 180 Volts**  
**P<sub>D</sub> : 1.0 Watts**

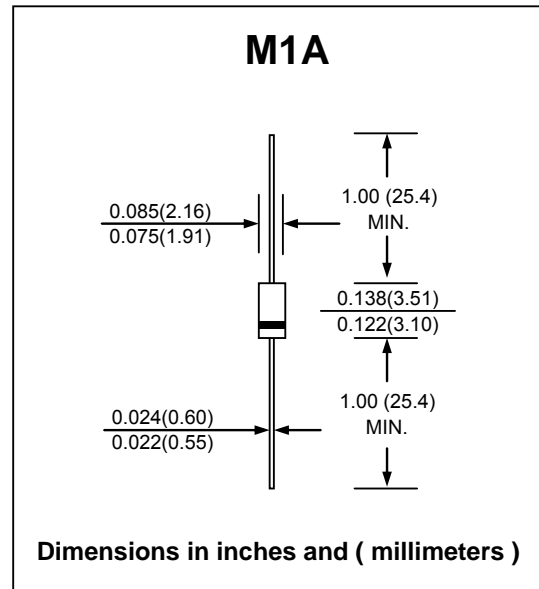
**FEATURES :**

- \* 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 <sub>L</sub> = 75 °C (1)	P <sub>D</sub>	1.0	W
Maximum Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.2	V
Junction Temperature Range	T <sub>J</sub>	- 55 to + 175	°C
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 175	°C

**ELECTRICAL CHARACTERISTICS**

Rating at 25 °C ambient temperature unless otherwise specified.

Type.	Nominal Zener Voltage <sup>(2)</sup>	Test Current	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub> @ V <sub>R</sub>	I <sub>ZM</sub>	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA) (V)	(mA)	
<b>Z1150AM</b>	150	1.7	1000	6000	0.25	5.0 114.0	6.4	
<b>Z1180AM</b>	180	1.4	1200	7000	0.25	5.0 136.8	5.2	

**Notes :**

- (1) T<sub>L</sub> = 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%.