

Z1150AM & Z1180AM

SILICON ZENER DIODES

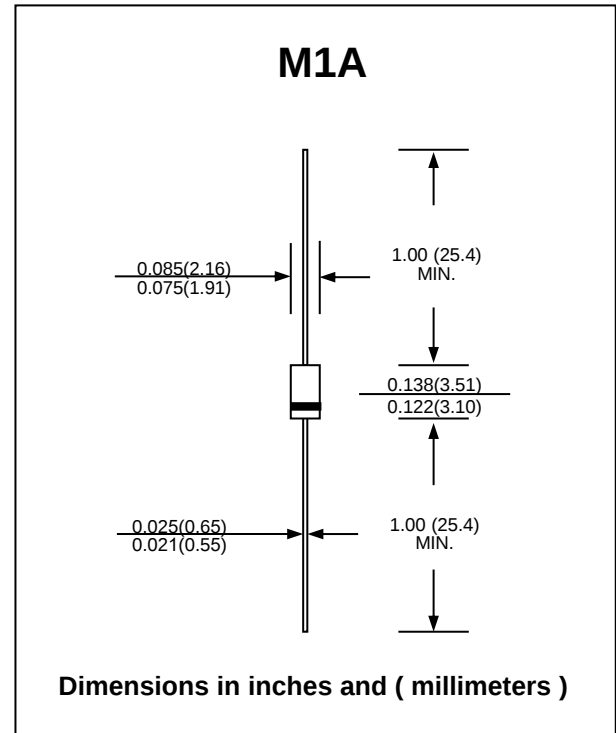
V_Z : 150 & 180 Volts
P_D : 1.0 Watts

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)



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}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		I _{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(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%.