

SZ40D2 - SZ40E8

V_Z : 220 - 380 Volts

P_D : 2 Watt

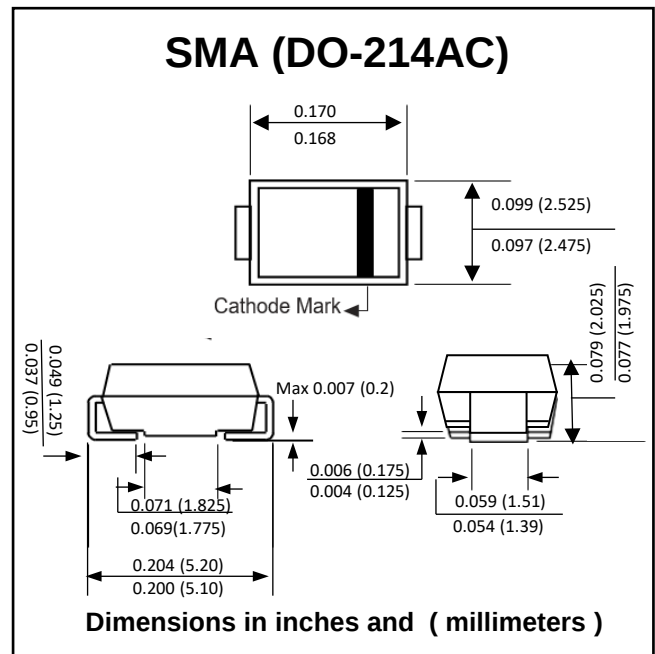
FEATURES :

- * Complete Voltage Range 220 to 380 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * **Pb / RoHS Free**

MECHANICAL DATA

- * Case : SMA (DO-214AC) Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead formed for Surface mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.064 gram

SURFACE MOUNT 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 (Note1)	P _D	2.0	W
Maximum Forward Voltage at I _F = 200 mA	V _F	2.0	V
Junction Temperature Range	T _J	- 55 to + 150	°C
Storage Temperature Range	T _{STG}	- 55 to + 150	°C

ELECTRICAL CHARACTERISTICS (T_a = 25 °C unless otherwise specified)

Type (Note 2)	Nominal Zener Voltage		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)
SZ40D2	220	2.0	2000	8000	0.25	5.0	167	8.0
SZ40D7	270	1.6	2200	8500	0.25	5.0	205	6.7
SZ40E0	300	1.5	2200	9000	0.25	5.0	228	5.9
SZ40E3	330	1.4	2300	9000	0.25	5.0	250	5.4
SZ40E8	380	1.2	2700	9500	0.25	5.0	288	4.8

Notes :

- (1) T_L = Lead temperature at 5.0 mm² (0.013 mm thick) copper land areas.
- (2) The type number listed have a standard tolerance on the nominal zener voltage of ±10%, altered the fourth number of type from " 0 " for ±10% tolerance to be " 5 " for ±5% tolerance.
- (3) Surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method
- (4) " SZ " will be omitted in marking on the diode.