

SZ50D2 - SZ50F0

SURFACE MOUNT SILICON ZENER DIODES

V_Z : 220 - 400 Volts

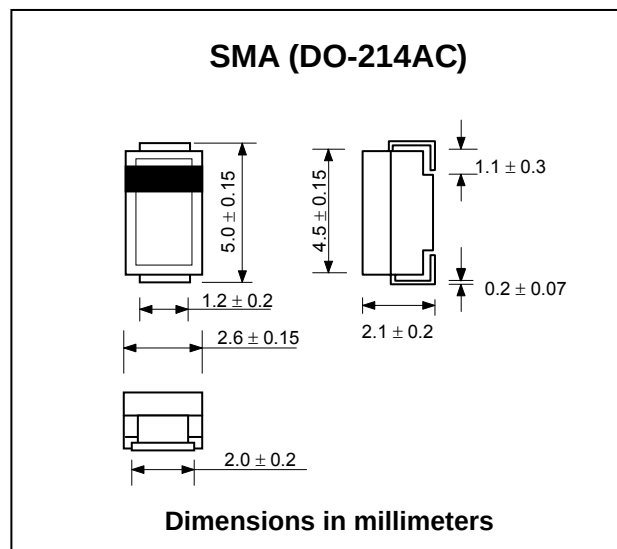
P_D : 3 Watt

FEATURES :

- * Complete Voltage Range 220 to 400 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



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	3.0	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	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)
SZ50D2	220	3.4	1600	9000	0.25	1.0	167.0	12
SZ50D4	240	3.1	1700	9000	0.25	1.0	182.0	11
SZ50D7	270	2.8	1800	9000	0.25	1.0	205.0	10
SZ50E0	300	2.5	1900	9000	0.25	1.0	228.0	9
SZ50E3	330	2.3	2200	9000	0.25	1.0	251.0	8
SZ50E6	360	2.1	2700	9000	0.25	1.0	274.0	8
SZ50F0	400	1.9	3500	9000	0.25	1.0	304.0	7

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) " SZ " will be omitted in marking on the diode.