

SZ103D - SZ10D0

SURFACE MOUNT SILICON ZENER DIODES

V_z : 3.3 - 200 Volts

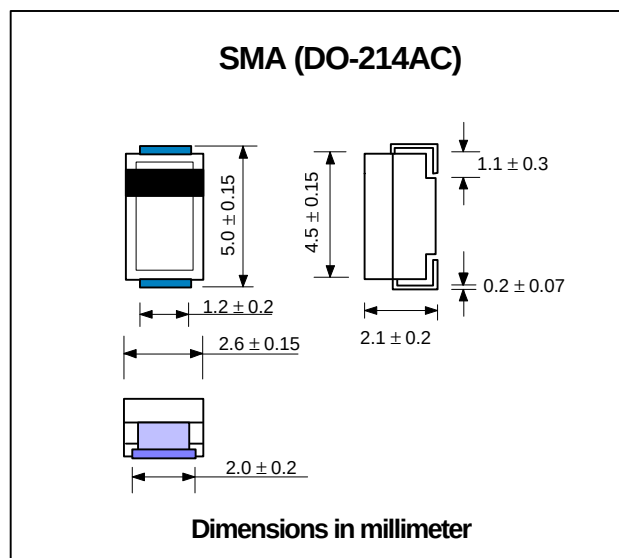
P_D : 1 Watt

FEATURES :

- * Complete Voltage Range 3.3 to 200 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current

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



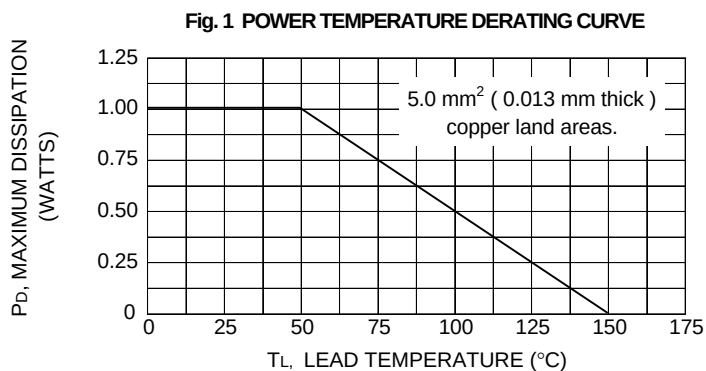
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50\text{ °C}$ (Note1)	P_D	1.0	Watt
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	Volts
Junction Temperature Range	T_J	- 55 to + 150	°C
Storage Temperature Range	T_S	- 55 to + 150	°C

Note :

(1) T_L = Lead temperature at 5.0 mm^2 (0.013 mm thick) copper land areas.



UPDATE : SEPTEMBER 9, 2000

ELECTRICAL CHARACTERISTICS

Rating at = 25 °C ambient temperature 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 _{KT} @ I _{ZT}	Z _{KK} @ I _{ZK}	I _{ZK}	I _R @ V _R		I _{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
SZ103D	3.3	76.0	10	400	1.0	100	1.0	276
SZ103G	3.6	69.0	10	400	1.0	100	1.0	252
SZ103J	3.9	64.0	9.0	400	1.0	50	1.0	234
SZ104D	4.3	58.0	9.0	400	1.0	10	1.0	217
SZ104H	4.7	53.0	8.0	500	1.0	10	1.0	193
SZ105B	5.1	49.0	7.0	550	1.0	10	1.0	178
SZ105G	5.6	45.0	5.0	600	1.0	10	2.0	162
SZ106C	6.2	41.0	2.0	700	1.0	10	3.0	146
SZ106I	6.8	37.0	3.5	700	1.0	50	4.0	133
SZ107F	7.5	34.0	4.0	700	0.5	50	5.0	121
SZ108C	8.2	31.0	4.5	700	0.5	50	6.0	110
SZ109B	9.1	28.0	5.0	700	0.5	50	7.0	100
SZ1010	10	25.0	7.0	700	0.25	50	7.6	91
SZ1011	11	23.0	8.0	700	0.25	50	8.4	83
SZ1012	12	21.0	9.0	700	0.25	5.0	9.1	76
SZ1013	13	19.0	10	700	0.25	5.0	9.9	69
SZ1015	15	17.0	14	700	0.25	5.0	11.4	61
SZ1016	16	15.5	16	700	0.25	5.0	12.2	57
SZ1018	18	14.0	20	750	0.25	5.0	13.7	50
SZ1020	20	12.5	22	750	0.25	5.0	15.2	45
SZ1022	22	11.5	23	750	0.25	5.0	16.7	41
SZ1024	24	10.5	25	750	0.25	5.0	18.2	38
SZ1027	27	9.5	35	750	0.25	5.0	20.6	34
SZ1030	30	8.5	40	1000	0.25	5.0	22.8	30
SZ1033	33	7.5	45	1000	0.25	5.0	25.1	27
SZ1036	36	7.0	50	1000	0.25	5.0	27.4	25
SZ1039	39	6.5	60	1000	0.25	5.0	29.7	23
SZ1043	43	6.0	70	1500	0.25	5.0	32.7	22
SZ1047	47	5.5	80	1500	0.25	5.0	35.8	19
SZ1051	51	5.0	95	1500	0.25	5.0	38.8	18
SZ1056	56	4.5	110	2000	0.25	5.0	42.6	16
SZ1062	62	4.0	125	2000	0.25	5.0	47.1	14
SZ1068	68	3.7	150	2000	0.25	5.0	51.7	13
SZ1075	75	3.3	175	2000	0.25	5.0	56.0	12
SZ1082	82	3.0	200	3000	0.25	5.0	62.2	11
SZ1091	91	2.8	250	3000	0.25	5.0	69.2	10
SZ10B0	100	2.5	350	3000	0.25	5.0	76.0	9.0
SZ10B1	110	2.3	450	4000	0.25	5.0	83.6	8.6
SZ10B2	120	2.0	550	4500	0.25	5.0	91.2	7.8
SZ10B3	130	1.9	700	5000	0.25	5.0	98.8	7.0
SZ10B5	150	1.7	1000	6000	0.25	5.0	114.0	6.4
SZ10B6	160	1.6	1100	6500	0.25	5.0	121.6	5.8
SZ10B8	180	1.4	1200	7000	0.25	5.0	136.8	5.2
SZ10D0	200	1.2	1500	8000	0.25	5.0	152.0	4.7

Note :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 10\%$, altered the fourth number of type from "0" for $\pm 10\%$ tolerance to be "5" for $\pm 5.0\%$ tolerance.
- (2) "SZ" will be omitted in marking on the diode.