



V_Z : 3.3 - 100 Volts

P_D : 1 Watt

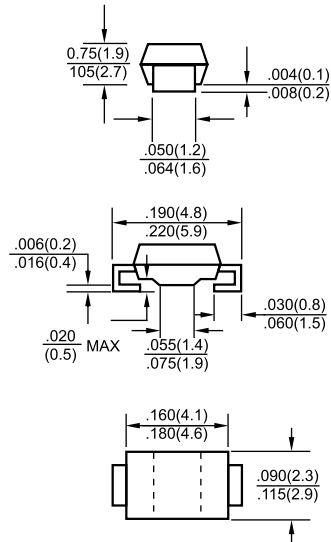
Features

- ✧ Complete Voltage Range 3.3 to 100 Volts
- ✧ High peak reverse power dissipation
- ✧ High reliability
- ✧ Low leakage current
- ✧ Pb / RoHS Free

Mechanical Data

- ✧ Case : SMA Molded plastic
- ✧ Epoxy : UL94V-O rate flame retardant
- ✧ Polarity : Color band denotes cathode end
- ✧ Mounting position : Any
- ✧ Weight : 0.060 gram (Approximately)

SMA/DO-214AC



Dimensions in inches and (millimeters)

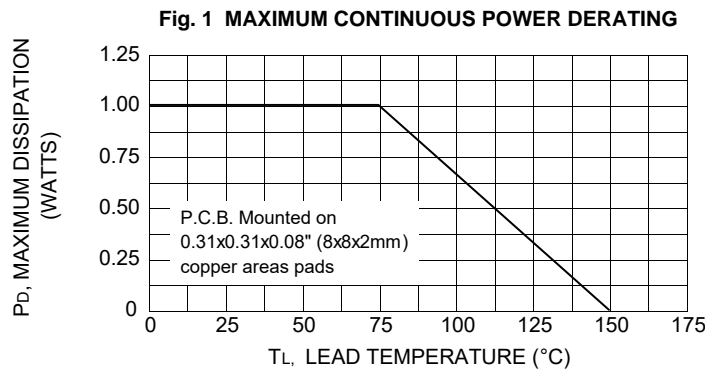
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 75\text{ °C}$ (Note1)	P_D	1.0	W
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V
Junction Temperature Range	T_J	- 55 to + 150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Note :

(1) P.C.B. Mounted on 0.31x0.31x0.08" (8x8x2mm) copper areas pad





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	Maximum Surge Current
	V _Z ⁽¹⁾ @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{Zk} @ I _{Zk}	I _{Zk}	I _R @ V _R		I _{ZM}	I _{RM} ⁽²⁾
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApk)
SMAL4728	3.3	76.0	10	400	1.0	100	1.0	276	1380
SMAL4729	3.6	69.0	10	400	1.0	100	1.0	252	1260
SMAL4730	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
SMAL4731	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
SMAL4732	4.7	53.0	8.0	500	1.0	10	1.0	193	970
SMAL4733	5.1	49.0	7.0	550	1.0	10	1.0	178	890
SMAL4734	5.6	45.0	5.0	600	1.0	10	2.0	162	810
SMAL4735	6.2	41.0	2.0	700	1.0	10	3.0	146	730
SMAL4736	6.8	37.0	3.5	700	1.0	10	4.0	133	660
SMAL4737	7.5	34.0	4.0	700	0.5	10	5.0	121	605
SMAL4738	8.2	31.0	4.5	700	0.5	10	6.0	110	550
SMAL4739	9.1	28.0	5.0	700	0.5	10	7.0	100	500
SMAL4740	10	25.0	7.0	700	0.25	10	7.6	91	454
SMAL4741	11	23.0	8.0	700	0.25	5.0	8.4	83	414
SMAL4742	12	21.0	9.0	700	0.25	5.0	9.1	76	380
SMAL4743	13	19.0	10	700	0.25	5.0	9.9	69	344
SMAL4744	15	17.0	14	700	0.25	5.0	11.4	61	305
SMAL4745	16	15.5	16	700	0.25	5.0	12.2	57	285
SMAL4746	18	14.0	20	750	0.25	5.0	13.7	50	250
SMAL4747	20	12.5	22	750	0.25	5.0	15.2	45	225
SMAL4748	22	11.5	23	750	0.25	5.0	16.7	41	205
SMAL4749	24	10.5	25	750	0.25	5.0	18.2	38	190
SMAL4750	27	9.5	35	750	0.25	5.0	20.6	34	170
SMAL4751	30	8.5	40	1000	0.25	5.0	22.8	30	150
SMAL4752	33	7.5	45	1000	0.25	5.0	25.1	27	135
SMAL4753	36	7.0	50	1000	0.25	5.0	27.4	25	125
SMAL4754	39	6.5	60	1000	0.25	5.0	29.7	23	115
SMAL4755	43	6.0	70	1500	0.25	5.0	32.7	22	110
SMAL4756	47	5.5	80	1500	0.25	5.0	35.8	19	95
SMAL4757	51	5.0	95	1500	0.25	5.0	38.8	18	90
SMAL4758	56	4.5	110	2000	0.25	5.0	42.6	16	80
SMAL4759	62	4.0	125	2000	0.25	5.0	47.1	14	70
SMAL4760	68	3.7	150	2000	0.25	5.0	51.7	13	65
SMAL4761	75	3.3	175	2000	0.25	5.0	56.0	12	60
SMAL4762	82	3.0	200	3000	0.25	5.0	62.2	11	55
SMAL4763	91	2.8	250	3000	0.25	5.0	69.2	10	50
SMAL4764	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

Notes :

- (1) Standard voltage tolerance is ±10%, Suffix A ± 5%
- (2) Surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method
- (3) " SML " will be omitted in marking on the diode.

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00