

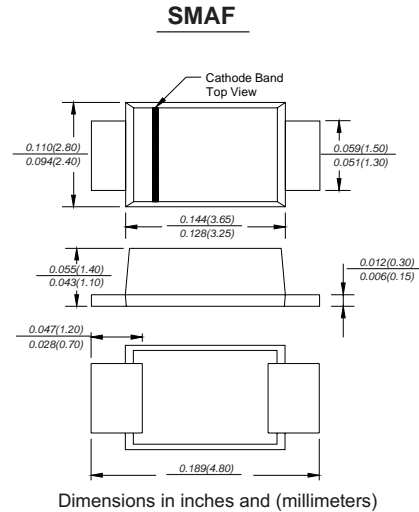
SURFACE MOUNT ZENER DIODES

Features:

- * Complete voltage range 3.3 to 100 volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Standard zener voltage tolerance is $\pm 5\%$.
- * **Pb / RoHS Free**

Mechanical Data:

- * Case : SMAF (SOD-128) Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead formed for Surface mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.034 gram



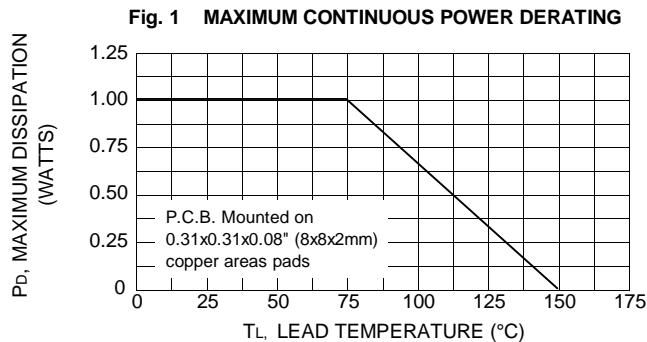
MAXIMUM RATINGS

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_S	- 55 to + 150	°C

Note :

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



ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

Type	Device Marking	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
		V _Z @ 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)
1SMAF4728A	728A	3.3	76.0	10	400	1.0	100	1.0	276	1380
1SMAF4729A	729A	3.6	69.0	10	400	1.0	100	1.0	252	1260
1SMAF4730A	730A	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
1SMAF4731A	731A	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
1SMAF4732A	732A	4.7	53.0	8.0	500	1.0	10	1.0	193	970
1SMAF4733A	733A	5.1	49.0	7.0	550	1.0	10	1.0	178	890
1SMAF4734A	734A	5.6	45.0	5.0	600	1.0	10	2.0	162	810
1SMAF4735A	735A	6.2	41.0	2.0	700	1.0	10	3.0	146	730
1SMAF4736A	736A	6.8	37.0	3.5	700	1.0	50	4.0	133	660
1SMAF4737A	737A	7.5	34.0	4.0	700	0.5	50	5.0	121	605
1SMAF4738A	738A	8.2	31.0	4.5	700	0.5	50	6.0	110	550
1SMAF4739A	739A	9.1	28.0	5.0	700	0.5	50	7.0	100	500
1SMAF4740A	740A	10	25.0	7.0	700	0.25	50	7.6	91	454
1SMAF4741A	741A	11	23.0	8.0	700	0.25	50	8.4	83	414
1SMAF4742A	742A	12	21.0	9.0	700	0.25	5.0	9.1	76	380
1SMAF4743A	743A	13	19.0	10	700	0.25	5.0	9.9	69	344
1SMAF4744A	744A	15	17.0	14	700	0.25	5.0	11.4	61	305
1SMAF4745A	745A	16	15.5	16	700	0.25	5.0	12.2	57	285
1SMAF4746A	746A	18	14.0	20	750	0.25	5.0	13.7	50	250
1SMAF4747A	747A	20	12.5	22	750	0.25	5.0	15.2	45	225
1SMAF4748A	748A	22	11.5	23	750	0.25	5.0	16.7	41	205
1SMAF4749A	749A	24	10.5	25	750	0.25	5.0	18.2	38	190
1SMAF4750A	750A	27	9.5	35	750	0.25	5.0	20.6	34	170
1SMAF4751A	751A	30	8.5	40	1000	0.25	5.0	22.8	30	150
1SMAF4752A	752A	33	7.5	45	1000	0.25	5.0	25.1	27	135
1SMAF4753A	753A	36	7.0	50	1000	0.25	5.0	27.4	25	125
1SMAF4754A	754A	39	6.5	60	1000	0.25	5.0	29.7	23	115
1SMAF4755A	755A	43	6.0	70	1500	0.25	5.0	32.7	22	110
1SMAF4756A	756A	47	5.5	80	1500	0.25	5.0	35.8	19	95
1SMAF4757A	757A	51	5.0	95	1500	0.25	5.0	38.8	18	90
1SMAF4758A	758A	56	4.5	110	2000	0.25	5.0	42.6	16	80
1SMA4759A	759A	62	4.0	125	2000	0.25	5.0	47.1	14	70
1SMAF4760A	760A	68	3.7	150	2000	0.25	5.0	51.7	13	65
1SMAF4761A	761A	75	3.3	175	2000	0.25	5.0	56.0	12	60
1SMAF4762A	762A	82	3.0	200	3000	0.25	5.0	62.2	11	55
1SMAF4763A	763A	91	2.8	250	3000	0.25	5.0	69.2	10	50
1SMAF4764A	764A	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

Notes :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of ±5%.
- (2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method