

FEATURES

- Total power dissipation: Max. 1 W.
- Wide zener reverse voltage range 3.0V to 330V.
- Small plastic package suitable for surface mounted design.

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg 0.00048oz

Absolute Maximum Ratings And Characteristics (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation at T _L =75°C	P _D	1.0	W
Forward Voltage at I _F = 200 mA	V _F	1.2	V
Typical thermal resistance junction to ambient ⁽¹⁾	R _{θJA}	55	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

(1) Thermal resistance from junction to ambient at P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper areas pads.

Fig.1 Maximum Continuous Power Derating

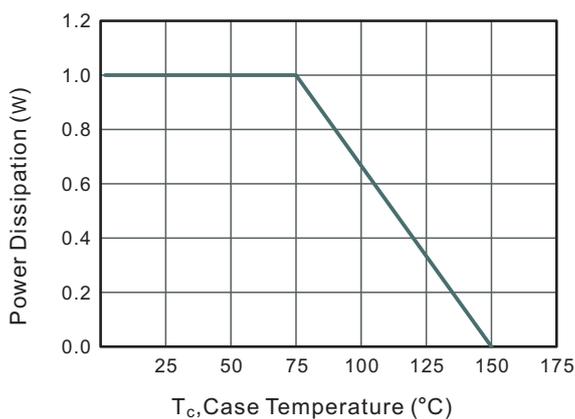
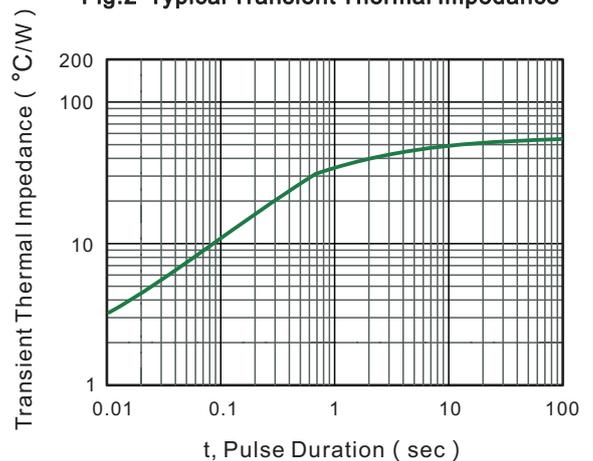


Fig.2 Typical Transient Thermal Impedance





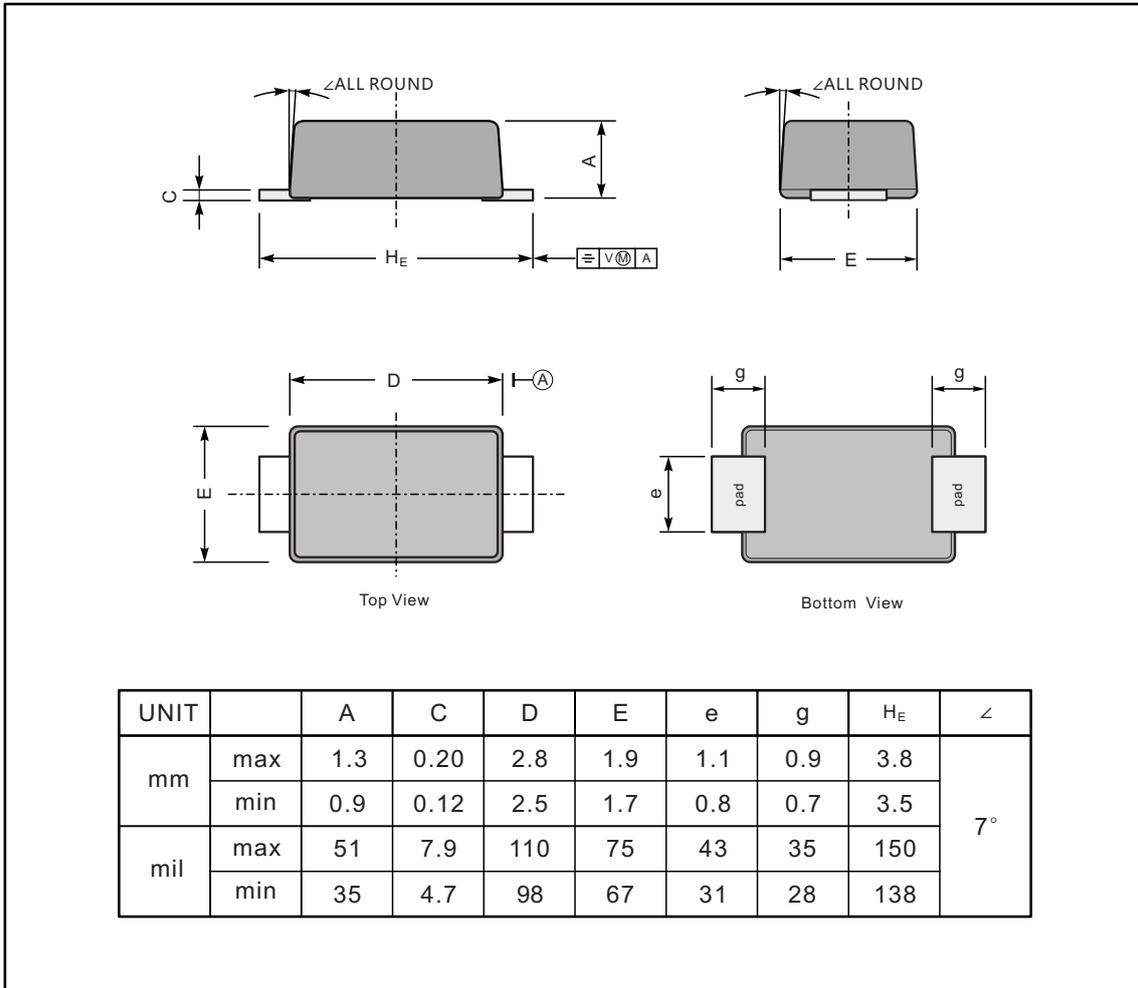
SMF4727A THRU SMF4777A

Surface Mounted Silicon Zener Diodes

Part Number	Marking Code	Zener Voltage Range (V)				Dynamic Impedance(Ω)			Reverse Current (μA)		Maximum DC Zener Current I _{ZM} (mA)
		Min.	Nom.	Max.	@ I _{ZT} (mA)	Z _{1T} Max.	Z _{1K} Max.	@ I _{ZK} (mA)	Max.	V _R (V)	
SMF4727A	727A	2.85	3	3.15	80	15	400	1	100	1.0	301
SMF4728A	728A	3.14	3.3	3.47	76	10	400	1	100	1.0	274
SMF4729A	729A	3.42	3.6	3.78	69	10	400	1	100	1.0	251
SMF4730A	730A	3.71	3.9	4.1	64	9	400	1	50	1.0	232
SMF4731A	731A	4.09	4.3	4.52	58	9	400	1	10	1.0	210
SMF4732A	732A	4.47	4.7	4.94	53	8	500	1	10	1.0	192
SMF4733A	733A	4.85	5.1	5.36	49	7	550	1	10	1.0	177
SMF4734A	734A	5.32	5.6	5.88	45	5	600	1	10	2.0	161
SMF4735A	735A	5.89	6.2	6.51	41	2	700	1	10	3.0	146
SMF4736A	736A	6.46	6.8	7.14	37	4	700	1	10	4.0	133
SMF4737A	737A	7.13	7.5	7.88	34	4	700	0.5	10	5.0	121
SMF4738A	738A	7.79	8.2	8.61	31	5	700	0.5	10	6.0	110
SMF4739A	739A	8.65	9.1	9.56	28	5	700	0.5	10	7.0	100
SMF4740A	740A	9.5	10	10.5	25	7	700	0.25	10	7.6	91
SMF4741A	741A	10.45	11	11.55	23	8	700	0.25	0.5	8.4	83
SMF4742A	742A	11.4	12	12.6	21	9	700	0.25	0.5	9.1	76
SMF4743A	743A	12.35	13	13.65	19	10	700	0.25	0.5	9.9	69
SMF4744A	744A	14.25	15	15.75	17	14	700	0.25	0.5	11.4	61
SMF4745A	745A	15.2	16	16.8	15.5	16	700	0.25	0.5	12.2	57
SMF4746A	746A	17.1	18	18.9	14	20	750	0.25	0.5	13.7	50
SMF4747A	747A	19	20	21	12.5	22	750	0.25	0.5	15.2	45
SMF4748A	748A	20.9	22	23.1	11.5	23	750	0.25	0.5	16.7	41
SMF4749A	749A	22.8	24	25.2	10.5	25	750	0.25	0.5	18.2	38
SMF4750A	750A	25.65	27	28.35	9.5	35	750	0.25	0.5	20.6	34
SMF4751A	751A	28.5	30	31.5	8.5	40	1000	0.25	0.5	22.8	30
SMF4752A	752A	31.35	33	34.65	7.5	45	1000	0.25	0.5	25.1	27
SMF4753A	753A	34.2	36	37.8	7.0	50	1000	0.25	0.5	27.4	25
SMF4754A	754A	37.05	39	40.95	6.5	60	1000	0.25	0.5	29.7	23
SMF4755A	755A	40.85	43	45.15	6.0	70	1500	0.25	0.5	32.7	22
SMF4756A	756A	44.65	47	49.35	5.5	80	1500	0.25	0.5	35.8	19
SMF4757A	757A	48.45	51	53.55	5.0	95	1500	0.25	0.5	38.8	18
SMF4758A	758A	53.2	56	58.8	4.5	110	2000	0.25	0.5	42.6	16
SMF4759A	759A	58.9	62	65.1	4.0	125	2000	0.25	0.5	47.1	14
SMF4760A	760A	64.6	68	71.4	3.7	150	2000	0.25	0.5	51.7	13
SMF4761A	761A	71.25	75	78.75	3.3	175	2000	0.25	0.5	56.0	12
SMF4762A	762A	77.9	82	86.1	3.0	200	3000	0.25	0.5	62.2	11
SMF4763A	763A	86.45	91	95.55	2.8	250	3000	0.25	0.5	69.2	10
SMF4764A	764A	95	100	105	2.5	350	3000	0.25	0.5	76.0	9
SMF4765A	765A	104.5	110	115.5	2.3	450	4000	0.25	0.5	83.6	8.6
SMF4766A	766A	114	120	127	2.0	550	4500	0.25	0.5	91.2	7.8
SMF4767A	767A	125	135	142	1.9	700	5000	0.25	0.5	98.8	7
SMF4768A	768A	140	150	157	1.7	1000	6000	0.25	0.5	114	6.4
SMF4769A	769A	155	165	172	1.6	1100	7000	0.25	0.5	121.6	5.8
SMF4770A	770A	170	180	191	1.4	1200	9990	0.25	0.5	136.8	5.2
SMF4771A	771A	189	200	211	1.2	1900	9990	0.25	0.5	152	4.7
SMF4772A	772A	209	220	231	1.0	2000	9990	0.25	0.5	168	4
SMF4773A	773A	229	240	251	1.0	2000	8500	0.25	0.5	182.4	3.8
SMF4774A	774A	249	260	271	1.0	2100	9000	0.25	0.5	190	3.6
SMF4775A	775A	269	280	291	1.0	2100	9000	0.25	0.5	205	3.4
SMF4776A	776A	289	300	315	1.0	2300	9500	0.25	0.5	228	3
SMF4777A	777A	313	330	346	1.0	2500	9500	0.25	0.5	250.2	2.7

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size

