

Features

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

Mechanical Data

Case : Molded plastic body

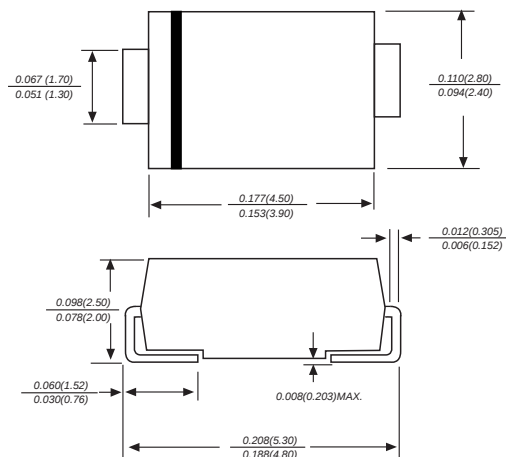
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0023 ounce, 0.07 grams

DO-214AC/SMA



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

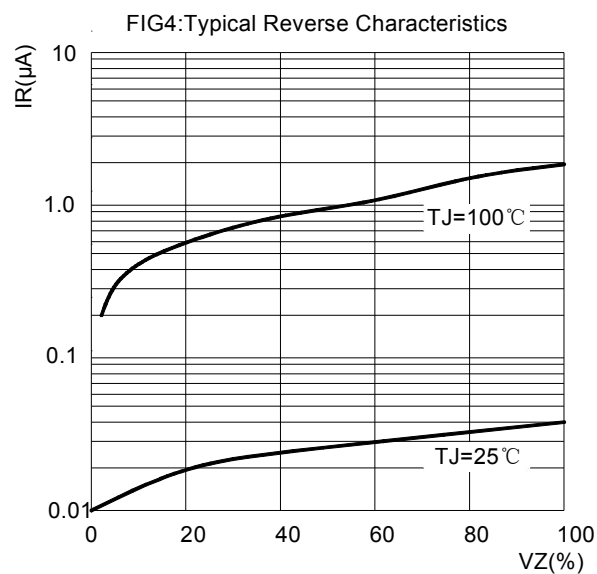
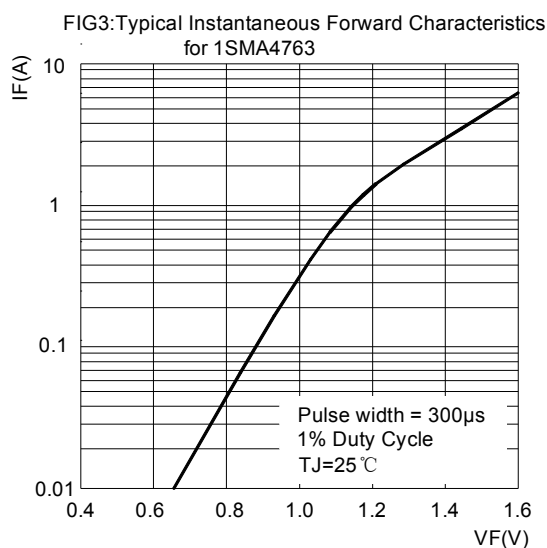
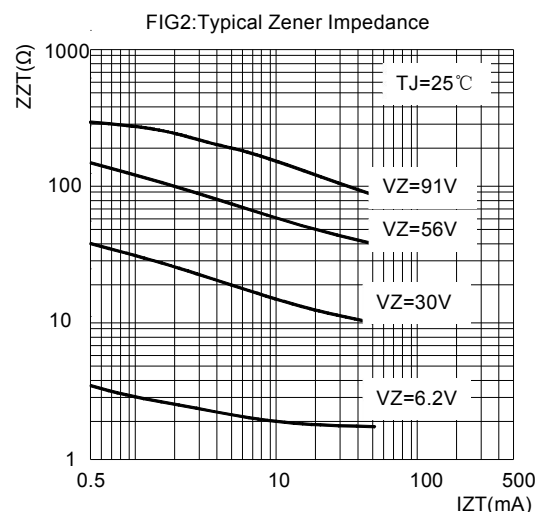
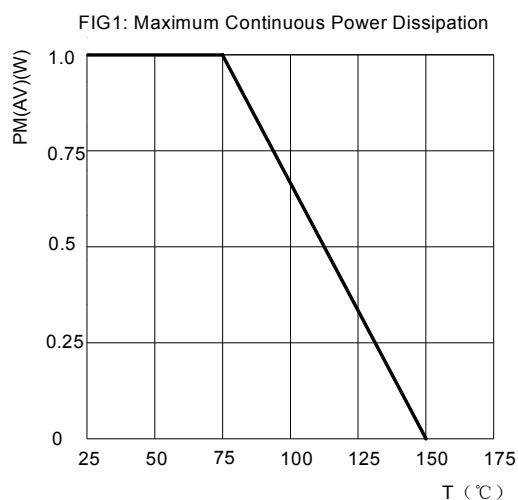
Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 75^\circ\text{C}$ (Note1)	P_D	1.0	W
Maximum Forward Voltage at $I_F = 200 \text{ mA}$	V_F	1.2	V
Junction Temperature Range	T_J	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^\circ\text{C}$

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)
1SMA4728	728A	3.3	76.0	10	400	1.0	100	1.0	276	1380
1SMA4729	729A	3.6	69.0	10	400	1.0	100	1.0	252	1260
1SMA4730	730A	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
1SMA4731	731A	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
1SMA4732	732A	4.7	53.0	8.0	500	1.0	10	1.0	193	970
1SMA4733	733A	5.1	49.0	7.0	550	1.0	10	1.0	178	890
1SMA4734	734A	5.6	45.0	5.0	600	1.0	10	2.0	162	810
1SMA4735	735A	6.2	41.0	2.0	700	1.0	10	3.0	146	730
1SMA4736	736A	6.8	37.0	3.5	700	1.0	50	4.0	133	660
1SMA4737	737A	7.5	34.0	4.0	700	0.5	50	5.0	121	605
1SMA4738	738A	8.2	31.0	4.5	700	0.5	50	6.0	110	550
1SMA4739	739A	9.1	28.0	5.0	700	0.5	50	7.0	100	500
1SMA4740	740A	10	25.0	7.0	700	0.25	50	7.6	91	454
1SMA4741	741A	11	23.0	8.0	700	0.25	50	8.4	83	414
1SMA4742	742A	12	21.0	9.0	700	0.25	5.0	9.1	76	380
1SMA4743	743A	13	19.0	10	700	0.25	5.0	9.9	69	344
1SMA4744	744A	15	17.0	14	700	0.25	5.0	11.4	61	305
1SMA4745	745A	16	15.5	16	700	0.25	5.0	12.2	57	285
1SMA4746	746A	18	14.0	20	750	0.25	5.0	13.7	50	250
1SMA4747	747A	20	12.5	22	750	0.25	5.0	15.2	45	225
1SMA4748	748A	22	11.5	23	750	0.25	5.0	16.7	41	205
1SMA4749	749A	24	10.5	25	750	0.25	5.0	18.2	38	190
1SMA4750	750A	27	9.5	35	750	0.25	5.0	20.6	34	170
1SMA4751	751A	30	8.5	40	1000	0.25	5.0	22.8	30	150
1SMA4752	752A	33	7.5	45	1000	0.25	5.0	25.1	27	135
1SMA4753	753A	36	7.0	50	1000	0.25	5.0	27.4	25	125
1SMA4754	754A	39	6.5	60	1000	0.25	5.0	29.7	23	115
1SMA4755	755A	43	6.0	70	1500	0.25	5.0	32.7	22	110
1SMA4756	756A	47	5.5	80	1500	0.25	5.0	35.8	19	95
1SMA4757	757A	51	5.0	95	1500	0.25	5.0	38.8	18	90
1SMA4758	758A	56	4.5	110	2000	0.25	5.0	42.6	16	80
1SMA4759	759A	62	4.0	125	2000	0.25	5.0	47.1	14	70
1SMA4760	760A	68	3.7	150	2000	0.25	5.0	51.7	13	65
1SMA4761	761A	75	3.3	175	2000	0.25	5.0	56.0	12	60
1SMA4762	762A	82	3.0	200	3000	0.25	5.0	62.2	11	55
1SMA4763	763A	91	2.8	250	3000	0.25	5.0	69.2	10	50
1SMA4764	764A	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

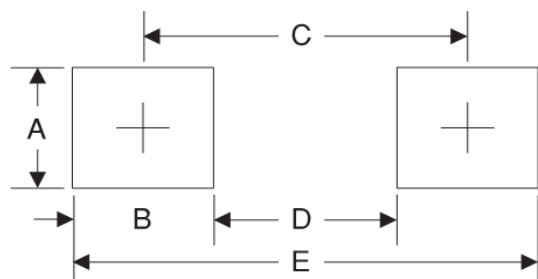
Notes :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.
- (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

Ratings And Characteristic Curves

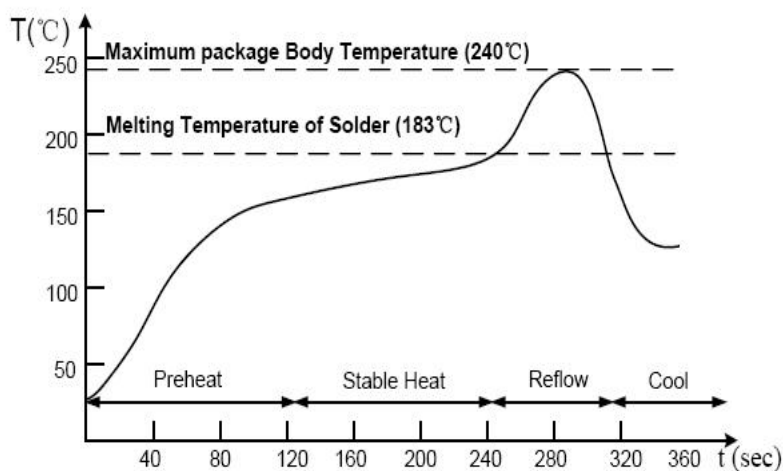


Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
B	1.52	0.060
C	3.90	0.154
D	2.41	0.095
E	5.45	0.215

Suggested Soldering Temperature Profile

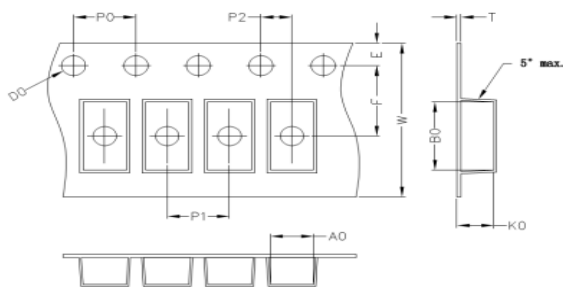


Note

- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Package Information

Carrier Dimension(mm)



A0	B0	K0	D0	E	F
2.80	5.30	2.36	1.55	1.75	5.50
P0	P1	P2	T	W	Tolerance
4.0	4.0	2.0	0.25	12	0.1

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
SMA	11'	278	5	285	10	355*310*310	80

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