



SML4728~SML4764

Glass Passivated Zener

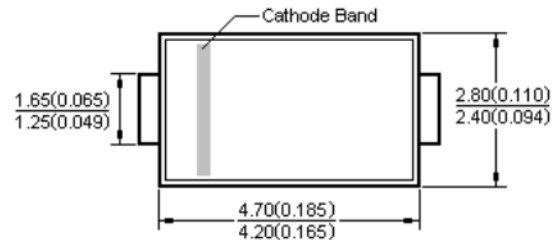
Features

- For surface mounted applications
- Low Zener impedance
- Low regulation factor
- Glass passivated chip
- High reliability
- High temperature soldering guaranteed
260°C/10 s at terminals
- Standard voltage tolerance is 10%,
suffix A $\pm 5\%$
- Component in accordance to
RoHS 2002/95/EC and WEEE 2002/96/EC



SMA (DO-214AC)

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Dimensions in millimeters and (inches)

Mechanical Data

- Case: JEDEC DO-214AC molded plastic over passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750 Method 2026
- Polarity: types the band by laser denotes the cathode

Applications

- Voltage stabilization

Maximum Ratings & Thermal Characteristics

($T_A = 25^\circ\text{C}$ unless otherwise noted)

	Symbol	VALUE	UNIT
power dissipation	P	1.0	W
Maximum Junction temperature	$T_{J\max}$	150	$^\circ\text{C}$
storage temperature range	T_{STG}	-55 to +150	$^\circ\text{C}$



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Electrical Characteristics

T_A = 25°C unless otherwise noted

DEVICE	House No.	Zener Voltage		Zener Impedance			Leakage Current		Surge Current I _{RM}
		V _Z @I _{ZT}	@I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}		I _R @V _R		
		Nom	mA	Ω	Ω	mA	uA	Volts	
SML4728		3.3	76	10	400	1.0	100	1.0	1380
SML4729		3.6	69	10	400	1.0	100	1.0	1260
SML4730		3.9	64	9	400	1.0	50	1.0	1190
SML4731		4.3	58	9	400	1.0	10	1.0	1070
SML4732		4.7	53	8	500	1.0	10	1.0	970
SML4733		5.1	49	7	550	1.0	10	1.0	890
SML4734		5.6	45	5	600	1.0	10	2.0	810
SML4735		6.2	41	2	700	1.0	10	3.0	730
SML4736		6.8	37	3.5	700	1.0	10	4.0	660
SML4737		7.5	34	4.0	700	0.5	10	5.0	605
SML4738		8.2	31	4.5	700	0.5	10	6.0	550
SML4739		9.1	28	5.0	700	0.5	10	7.0	500
SML4740		10	25	7	700	0.25	10	7.6	454
SML4741		11	23	8	700	0.25	5	8.4	414
SML4742		12	21	9	700	0.25	5	9.1	380
SML4743		13	19	10	700	0.25	5	9.9	344
SML4744		15	17	14	700	0.25	5	11.4	305
SML4745		16	15.5	16	700	0.25	5	12.2	285
SML4746		18	14	20	750	0.25	5	13.7	250
SML4747		20	12.5	22	750	0.25	5	15.2	225
SML4748		22	11.5	23	750	0.25	5	16.7	205
SML4749		24	10.5	25	750	0.25	5	18.2	190
SML4750		27	9.5	35	750	0.25	5	20.6	170
SML4751		30	8.5	40	1000	0.25	5	22.8	150
SML4752		33	7.5	45	1000	0.25	5	25.1	135
SML4753		36	7.0	50	1000	0.25	5	27.4	125
SML4754		39	6.5	60	1000	0.25	5	29.7	115
SML4755		43	6.0	70	1500	0.25	5	32.7	110
SML4756		47	5.5	80	1500	0.25	5	35.8	95
SML4757		51	5.0	95	1500	0.25	5	38.8	90
SML4758		56	4.5	110	2000	0.25	5	42.6	80
SML4759		62	4.0	125	2000	0.25	5	47.1	70
SML4760		68	3.7	150	2000	0.25	5	51.7	65
SML4761		75	3.3	175	2000	0.25	5	56.0	60
SML4762		82	3.0	200	3000	0.25	5	62.2	55
SML4763		91	2.8	250	3000	0.25	5	69.2	50
SML4764		100	2.5	350	3000	0.25	5	76.0	45

Notes: (1) Based on dc-measurement at thermal equilibrium

(2) Surge current is a non-repetitive, 8.3 ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC method