



SML4728~SML4764

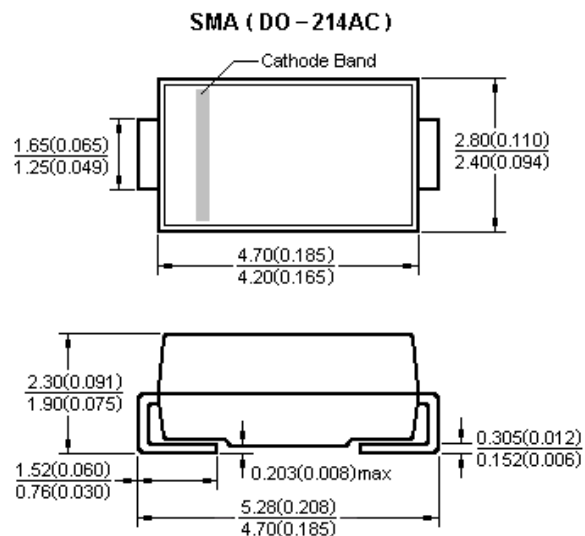
Glass Passivated Zener

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)



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	$^\circ\text{C}$



SML4728~SML4764

Glass Passivated Zener

Electrical Characteristics

T_A = 25°C unless otherwise noted

DEVICE	House No.	Zener Voltage		Zener Impedance			Leakage Current		Surge Current I _{RM}
		VZ@IZT	@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

