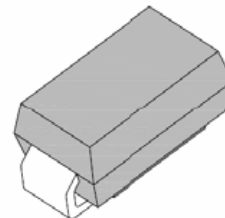


1.5W Surface Mount Zener Diodes

Features

- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Complete voltage range 3.6 to 51V
- Typical I_R less than 1.0 μ A above 12V
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Low leakage current
- RoHS compliant



SMA
(DO-214AC)



Mechanical Data

Case:	JEDEC SMA (DO-214AC), molded plastic over passivated junction
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.002 ounce, 0.064 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
P_D	Peak Pulse Power Dissipation on $T_A=70^{\circ}C$	1.5	W	Note
I_{FSM}	Peak Forward Surge Current	10	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	$^{\circ}C$	

Note: Mounted on 5.0mm² (.013mm thickness) land areas.

1.5W Surface Mount Zener Diodes

Z1.5SMA59214B - Z1.5SMA5942B

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ IZT				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current IR @ VR	
		Vz(V)			IZT(mA)	ZZT @ IZT	ZZK @ Izk	Izk(mA)	IR(μ A)	VR(V)
		Nom.	Min.	Max.						
Z1.5SMA5914B	914A	3.6	3.42	3.78	104.2	9	500	1.00	75.00	1.00
Z1.5SMA5915B	915A	3.9	3.71	4.10	96.1	8	500	1.00	25.00	1.00
Z1.5SMA5916B	916A	4.3	4.09	4.52	87.2	6	500	1.00	5.00	1.00
Z1.5SMA5917B	917A	4.7	4.47	4.94	79.8	5	500	1.00	5.00	1.50
Z1.5SMA5918B	918A	5.1	4.85	5.36	73.5	4	350	1.00	5.00	2.00
Z1.5SMA5919B	919A	5.6	5.32	5.88	66.9	2	250	1.00	5.00	3.00
Z1.5SMA5920B	920A	6.2	5.89	6.51	60.5	2	200	1.00	5.00	4.00
Z1.5SMA5921B	921A	6.8	6.46	7.14	55.1	3	200	1.00	5.00	5.20
Z1.5SMA5922B	922A	7.5	7.13	7.88	50.0	3	400	0.50	5.00	6.00
Z1.5SMA5923B	923A	8.2	7.79	8.61	45.7	4	400	0.50	5.00	6.50
Z1.5SMA5924B	924A	9.1	8.65	9.56	41.2	4	500	0.50	5.00	7.00
Z1.5SMA5925B	925A	10	9.50	10.50	37.5	5	500	0.25	5.00	8.00
Z1.5SMA5926B	926A	11	10.45	11.55	34.1	6	550	0.25	1.00	8.40
Z1.5SMA5927B	927A	12	11.40	12.60	31.2	7	550	0.25	1.00	9.10
Z1.5SMA5928B	928A	13	12.35	13.65	28.8	7	550	0.25	1.00	9.90
Z1.5SMA5929B	929A	15	14.25	15.75	25.0	9	600	0.25	1.00	11.40
Z1.5SMA5930B	930A	16	15.20	16.80	23.4	10	600	0.25	1.00	12.20
Z1.5SMA5931B	931A	18	17.10	18.90	20.8	12	650	0.25	1.00	13.70
Z1.5SMA5932B	932A	20	19.00	21.00	18.7	14	650	0.25	1.00	15.20
Z1.5SMA5933B	933A	22	20.90	23.10	17.0	18	650	0.25	1.00	16.70
Z1.5SMA5934B	934A	24	22.80	25.20	15.6	19	700	0.25	1.00	18.20
Z1.5SMA5935B	935A	27	25.65	28.35	13.9	23	700	0.25	1.00	20.60
Z1.5SMA5936B	936A	30	28.50	31.50	12.5	26	750	0.25	1.00	22.80
Z1.5SMA5937B	937A	33	31.35	34.65	11.4	33	800	0.25	1.00	25.10
Z1.5SMA5938B	938A	36	34.20	37.80	10.4	38	850	0.25	1.00	27.40
Z1.5SMA5939B	939A	39	37.05	40.95	9.6	45	900	0.25	1.00	29.70
Z1.5SMA5940B	940A	43	40.85	45.15	8.7	53	950	0.25	1.00	32.70
Z1.5SMA5941B	941A	47	44.65	49.35	8.0	67	1000	0.25	1.00	35.80
Z1.5SMA5942B	942A	51	48.45	53.55	7.3	70	1100	0.25	1.00	38.80

Note: Suffix "B" indicates $\pm 5\%$ tolerance.

1.5W Surface Mount Zener Diodes

Z1.5SMA59214B - Z1.5SMA5942B

Typical Characteristics Curves

Fig.1-Steady State Power Derating

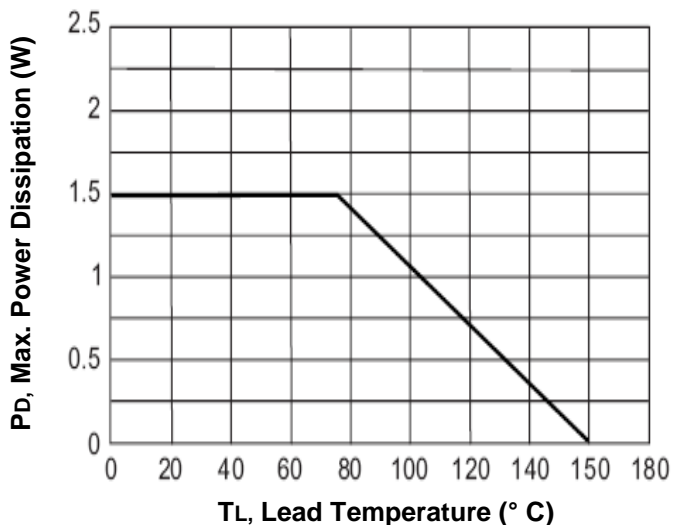
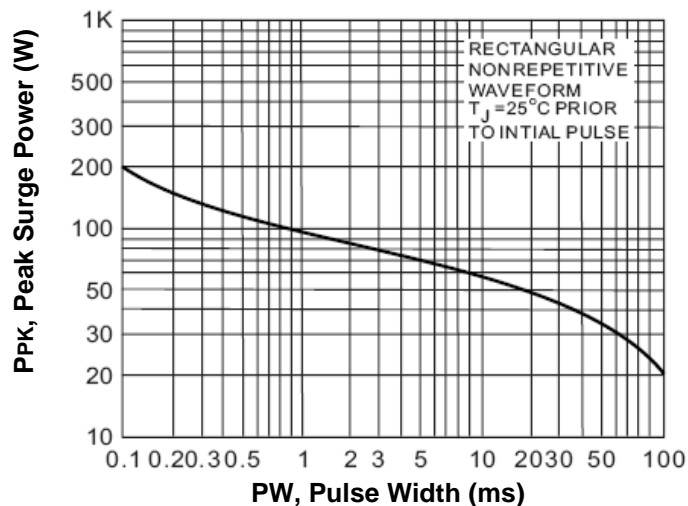
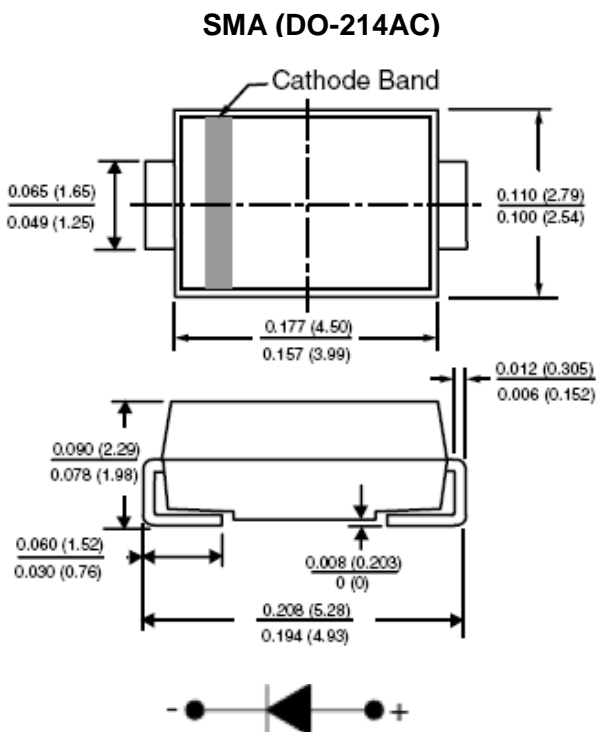


Fig.2-Max.Surge Power



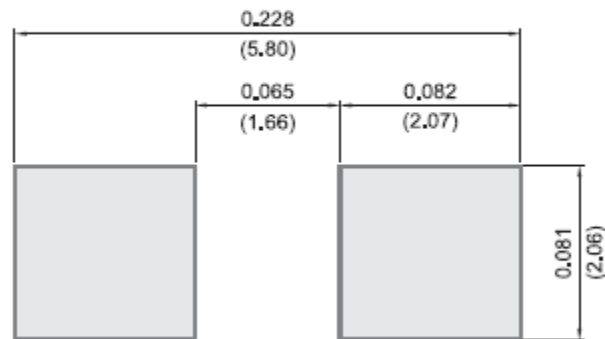
Dimensions in inch (mm)



1.5W Surface Mount Zener Diodes

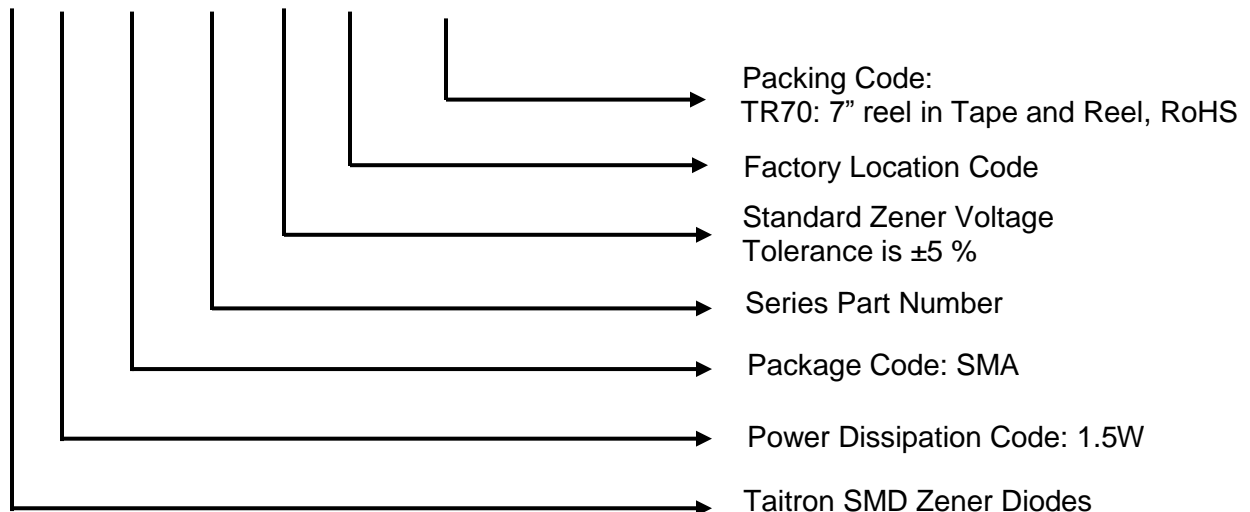
Z1.5SMA59214B - Z1.5SMA5942B

Soldering Pad in inch (mm)



Ordering Information

Z 1.5 SMA 5921B - xx - TR70



1.5W Surface Mount Zener Diodes

Z1.5SMA59214B - Z1.5SMA5942B

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