

ZENER DIODE, SURFACE MOUNT: SOT-23

APPLICATION:

Voltage Regulation

MAXIMUM RATINGS: (Ta = 25°C)

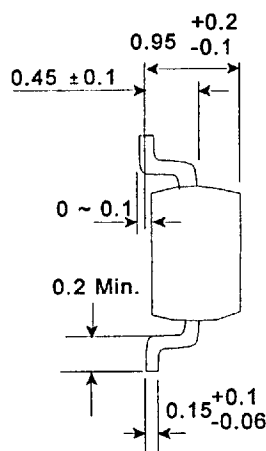
Total Power Dissipation (Pd)*	300 mW
Junction Temperature (Tj)	150°C
Storage Temperature (Tstg)	-65 to +150°C

*Device mounted on 7mmx5mmx0.6mm ceramic substrate

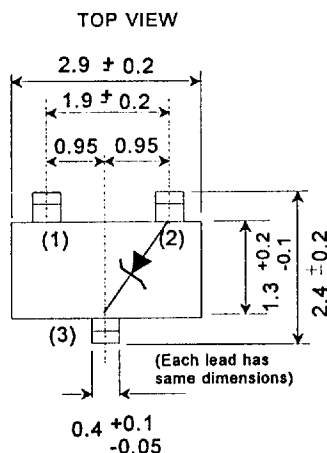
FEATURES:

- Small size for Surface Mount Applications
- Compatible with JEDEC IN5000 Series
- Silicon planar construction
- SST Package (U.S./European SOT-23)
- Available in 8 mm plastic carrier tape
- Voltage range: 2.4 to 51V

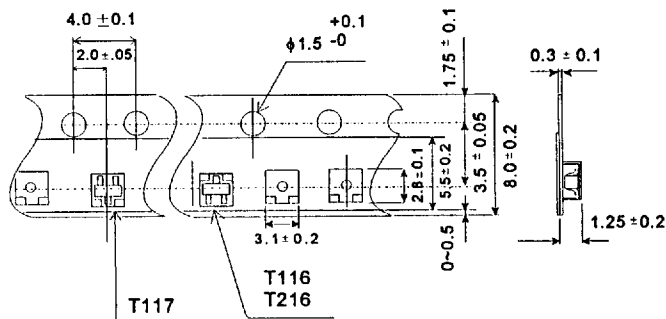
DIMENSIONS/PACKAGING: (Unit: mm)



SST Package
(U.S./European SOT-23)



Tape and
Reel Packing



Recommended
Pad Layout

Taping Code	Description	Quantity/Reel	Reel Size
*T116	1 Pin Side on Feed Hole Side	3,000	178mm/7"
*T216	1 Pin Side on Feed Hole Side	10,000	330mm/13"
T117	2 Pin Side on Feed Hole Side	3,000	178mm/7"

*Standard Taping Code

HOW TO ORDER: RSZ 5232B T116

_____ Taping Code (packaging)
 _____ JEDEC Part Number
 _____ Rohm SOT-23 Zener Diode: SST Pkg. (U.S./ European SOT-23)

Example: R S Z 5 2 3 2 B T116 Description: Zener Diode, SMD, 5.6V, SST(Sot-23) Pkg - 3,000 pc/reel

ELECTRICAL CHARACTERISTICS: (Ta=25°C)

• RSZ5000 Series - Package: SST (U.S./European SOT-23)

Part Number	Zener Voltage @ I_{ZT} $V_Z \pm 5\%$ (Volts)			Test Current I_{ZT} (mA)	Max. Zener Impedance		Max. Reverse Leakage Current		Max. Zener Temp Coef. θV_Z (% / °C)	Marking
	Nom. V_Z	Min. V_Z	Max. V_Z		Z_Z (Ohms)	$Z @ I_Z = 25\text{mA}$ (Ohms)	I_R (μA)	@ V_R (V)		
RSZ5221B	2.4	2.28	2.52	20	30	1200	100	1.0	- 0.085	Z7A
RSZ5222B	2.5	2.38	2.63	20	30	1250	100	1.0	- 0.085	Z7B
RSZ5223B	2.7	2.57	2.84	20	30	1300	75	1.0	- 0.080	Z7C
RSZ5224B	2.8	2.66	2.94	20	30	1400	75	1.0	- 0.080	Z7D
RSZ5225B	3.0	2.85	3.15	20	29	1600	50	1.0	- 0.075	Z7E
RSZ5226B	3.3	3.14	3.47	20	28	1600	25	1.0	- 0.070	Z7F
RSZ5227B	3.6	3.42	3.78	20	24	1700	15	1.0	- 0.065	Z7G
RSZ5228B	3.9	3.71	4.10	20	23	1900	10	1.0	- 0.060	Z7H
RSZ5229B	4.3	4.09	4.52	20	22	2000	5.0	1.0	- 0.038	Z7I
RSZ5230B	4.7	4.47	4.94	20	19	1900	5.0	2.0	- 0.030	Z7J
RSZ5231B	5.1	4.85	5.36	20	17	1600	5.0	2.0	- 0.030	Z7K
RSZ5232B	5.6	5.32	5.88	20	11	1600	5.0	3.0	+ 0.038	Z7L
RSZ5233B	6.0	5.70	6.30	20	7.0	1600	5.0	3.5	+ 0.038	Z7M
RSZ5234B	6.2	5.89	6.51	20	7.0	1000	5.0	4.0	+ 0.045	Z7N
RSZ5235B	6.8	6.46	7.14	20	5.0	750	3.0	5.0	+ 0.050	Z7O
RSZ5236B	7.5	7.13	7.88	20	6.0	500	3.0	6.0	+ 0.058	Z7P
RSZ5237B	8.2	7.79	8.61	20	8.0	500	3.0	6.5	+ 0.062	Z7Q
RSZ5238B	8.7	8.27	9.14	20	8.0	600	3.0	6.5	+ 0.065	Z7R
RSZ5239B	9.1	8.65	9.56	20	10	600	3.0	7.0	0.068	Z7S
RSZ5240B	10.0	9.50	10.50	20	17	600	3.0	8.0	+ 0.075	Z7T
RSZ5241B	11.0	10.45	11.55	20	22	600	2.0	8.4	+ 0.076	Z7U
RSZ5242B	12.0	11.40	12.60	20	30	600	1.0	9.1	+ 0.077	Z7V
RSZ5243B	13.0	12.35	13.65	9.5	13	600	0.5	9.9	+ 0.079	Z7W
RSZ5244B	14.0	13.30	14.70	9.0	15	600	0.1	10.0	+ 0.082	Z7X
RSZ5245B	15.0	14.25	15.75	8.5	16	600	0.1	11.0	+ 0.082	Z7Y
RSZ5246B	16.0	15.20	16.80	7.8	17	600	0.1	12.0	+ 0.083	Z7Z
RSZ5247B	17.0	16.15	17.85	7.4	19	600	0.1	13.0	+ 0.084	Z8A
RSZ5248B	18.0	17.10	18.90	7.0	21	600	0.1	14.0	+ 0.085	Z8B
RSZ5249B	19.0	18.05	19.95	6.6	23	600	0.1	14.0	+ 0.086	Z8C
RSZ5250B	20.0	19.00	21.00	6.2	25	600	0.1	15.0	+ 0.086	Z8D
RSZ5251B	22.0	20.90	23.10	5.6	29	600	0.1	17.0	+ 0.087	Z8E
RSZ5252B	24.0	22.80	25.20	5.2	33	600	0.1	18.0	+ 0.088	Z8F
RSZ5253B	25.0	23.75	26.25	5.0	35	600	0.1	19.0	+ 0.089	Z8G
RSZ5254B	27.0	25.65	28.35	4.6	41	600	0.1	21.0	+ 0.090	Z8H
RSZ5255B	28.0	26.60	29.40	4.5	44	600	0.1	21.0	+ 0.091	Z8I
RSZ5256B	30.0	28.50	31.50	4.2	49	600	0.1	23.0	+ 0.091	Z8J
RSZ5257B	33.0	31.35	34.65	3.8	58	700	0.1	25.0	+ 0.092	Z8K
RSZ5258B	36.0	34.20	37.80	3.4	70	700	0.1	27.0	+ 0.093	Z8L
RSZ5259B	39.0	37.05	40.95	3.2	80	800	0.1	30.0	+ 0.094	Z8M