查询"1SMA5950B"供应商

SYNSEMI SEMICONDUCTOR

1SMA5913B - 1SMA5957B

SURFACE MOUNT SILICON ZENER DIODES

V_Z : 3.3 - 240 Volts
P_D : 1.5 Watts

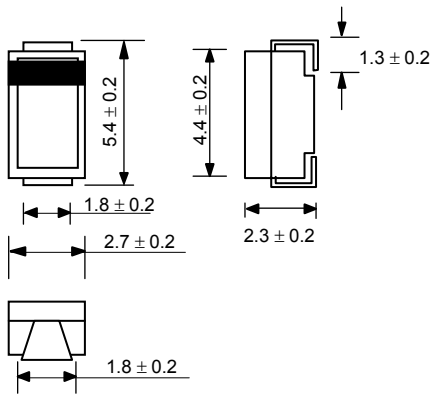
FEATURES :

* Complete Voltage Range 3.3 to 240 Volts
* High peak reverse power dissipation
* High reliability
* Low leakage current
* Pb / RoHS Free

MECHANICAL DATA :

* Case : SMA-L Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.060 gram (Approximately)

SMA-L



Dimensions in millimeter

MAXIMUM RATINGS

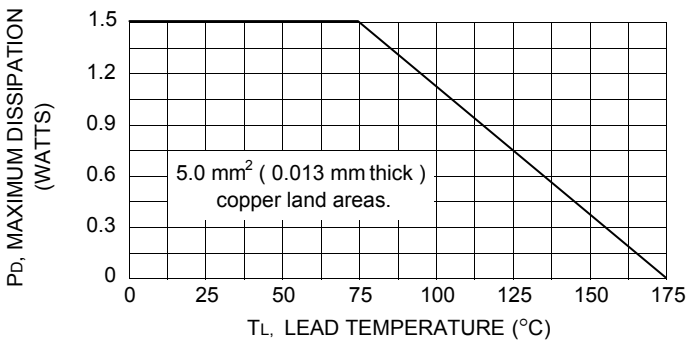
Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation (Note1)	P_D	1.5	W
Maximum Forward Voltage at I_F = 200 mA	V_F	1.5	V
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\Theta JA}$	130	K / W
Junction Temperature Range	T_J	- 55 to + 175	ºC
Storage Temperature Range	T_S	- 55 to + 175	ºC

Note :

(1) T_L = Lead temperature at 5.0 mm^2 (0.013 mm thick) copper land areas

Fig. 1 POWER TEMPERATURE DERATING CURVE



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ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specifie

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @ V_R		I_{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
1SMA5913B	3.3	113.6	10	500	1.0	100	1.0	454
1SMA5914B	3.6	104.2	9.0	500	1.0	75	1.0	416
1SMA5915B	3.9	96.1	7.5	500	1.0	25	1.0	384
1SMA5916B	4.3	87.2	6.0	500	1.0	5.0	1.0	348
1SMA5917B	4.7	79.8	5.0	500	1.0	5.0	1.5	319
1SMA5918B	5.1	73.5	4.0	500	1.0	5.0	2.0	294
1SMA5919B	5.6	66.9	2.0	500	1.0	5.0	3.0	267
1SMA5920B	6.2	60.5	2.0	200	1.0	5.0	4.0	241
1SMA5921B	6.8	55.1	2.5	200	1.0	50	5.2	220
1SMA5922B	7.5	50.0	3.0	400	0.5	50	6.0	200
1SMA5923B	8.2	45.7	3.5	400	0.5	50	6.5	182
1SMA5924B	9.1	41.2	4.0	500	0.5	50	7.0	164
1SMA5925B	10	37.5	4.5	500	0.25	50	8.0	150
1SMA5926B	11	34.1	5.5	550	0.25	50	8.4	136
1SMA5927B	12	31.2	6.5	550	0.25	1.0	9.1	125
1SMA5928B	13	28.8	7.0	550	0.25	1.0	9.9	115
1SMA5929B	15	25.0	9.0	600	0.25	1.0	11.4	100
1SMA5930B	16	23.4	10	600	0.25	1.0	12.2	93
1SMA5931B	18	20.8	12	650	0.25	1.0	13.7	83
1SMA5932B	20	18.7	14	650	0.25	1.0	15.2	75
1SMA5933B	22	17.0	17.5	650	0.25	1.0	16.7	68
1SMA5934B	24	15.6	19	700	0.25	1.0	18.2	62
1SMA5935B	27	13.9	23	700	0.25	1.0	20.6	55
1SMA5936B	30	12.5	26	750	0.25	1.0	22.8	50
1SMA5937B	33	11.4	33	800	0.25	1.0	25.1	45
1SMA5938B	36	10.4	38	850	0.25	1.0	27.4	41
1SMA5939B	39	9.6	45	900	0.25	1.0	29.7	38
1SMA5940B	43	8.7	53	950	0.25	1.0	32.7	34
1SMA5941B	47	8.0	67	1000	0.25	1.0	35.8	31
1SMA5942B	51	7.3	70	1100	0.25	1.0	38.8	29
1SMA5943B	56	6.7	86	1300	0.25	1.0	42.6	26
1SMA5944B	62	6.0	100	1500	0.25	1.0	47.1	24
1SMA5945B	68	5.5	120	1700	0.25	1.0	51.7	22
1SMA5946B	75	5.0	140	2000	0.25	1.0	56.0	20
1SMA5947B	82	4.6	160	2500	0.25	1.0	62.2	18
1SMA5948B	91	4.1	200	3000	0.25	1.0	69.2	16
1SMA5949B	100	3.7	250	3100	0.25	1.0	76.0	15
1SMA5950B	110	3.4	300	4000	0.25	1.0	83.6	13
1SMA5951B	120	3.1	380	4500	0.25	1.0	91.2	12
1SMA5952B	130	2.9	450	5000	0.25	1.0	98.8	11
1SMA5953B	150	2.5	600	6000	0.25	1.0	114.0	10
1SMA5954B	160	2.3	700	6500	0.25	1.0	121.6	9.0
1SMA5955B	180	2.1	900	7000	0.25	1.0	136.8	8.0
1SMA5956B	200	1.9	1200	8000	0.25	1.0	152.0	7.0
1SMA5957B	240	1.5	1600	9000	0.25	1.0	182.4	6.0

Note :

(1) Suffix " B " indicates ± 5% tolerance, suffix " A " indicates ± 10% tolerance.