



PRODUCT NAME : 1N5380B 120V 5W Zener Diodes

PRICE : Rs 25.00

SKU : RM1938



DESCRIPTION

Features

- Nominal Zener Voltage (V_z): 120V
- Max. Regulator Current (I_{zm}): 0.043A
- Max. Reverse Leakage Current (I_r): 0.5 μ A
- Total Power Dissipation (P_{tot}): 5W

**MOTOROLA
 SEMICONDUCTOR
 TECHNICAL DATA**

**5 Watt Surmetic 40
 Silicon Zener Diodes**

This is a complete series of 5 Watt Zener Diodes with tight limits and better operating characteristics that reflect the superior capabilities of silicon-oxide-passivated junctions. All this is in an axial-lead, transfer-molded plastic package that offers protection in all common environmental conditions.

Specification Features:

- Up to 180 Watt Surge Rating @ 8.3 ms
- Maximum Limits Guaranteed on Seven Electrical Parameters

Mechanical Characteristics:

CASE: Void-free, transfer-molded, thermosetting plastic

FINISH: All external surfaces are corrosion resistant and leads are readily solderable

POLARITY: Cathode indicated by color band. When operated in zener mode, cathode will be positive with respect to anode

MOUNTING POSITION: Any

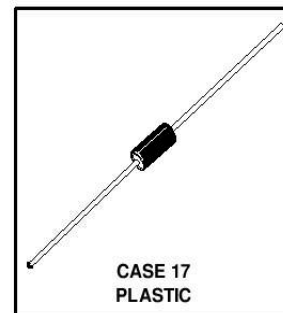
WEIGHT: 0.7 gram (approx)

WAFER FAB LOCATION: Phoenix, Arizona

ASSEMBLY/TEST LOCATION: Seoul, Korea

**1N5333B
 through
 1N5388B**

**5 WATT
 ZENER REGULATOR
 DIODES
 3.3–200 VOLTS**



MAXIMUM RATINGS

Rating	Symbol	Value	Unit
DC Power Dissipation @ $T_L = 75^\circ\text{C}$ Lead Length = 3/8" Derate above 75°C	P_D	5 40	Watts mW/°C
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-65 to +200	°C

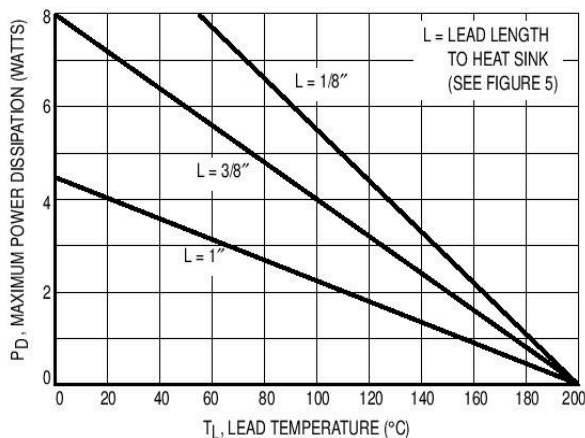


Figure 1. Power Temperature Derating Curve

1N5333B through 1N5388B

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted, $V_F = 1.2$ Max @ $I_F = 1$ A for all types)

JEDEC Type No. (Note 1)	Nominal Zener Voltage $V_Z @ I_{ZT}$ Volts (Note 2)	Test Current I_{ZT} mA	Max Zener Impedance		Max Reverse Leakage Current		Max Surge Current i_{FS} Amps (Note 3)	Max Voltage Regulation ΔV_Z , Volt (Note 4)	Maximum Regulator Current I_{ZM} mA (Note 5)
			$Z_{ZT} @ I_{ZT}$ Ohms (Note 2)	$Z_{ZK} @ I_{ZK} = 1$ mA Ohms (Note 2)	$I_R @ V_R$ μA Volts				
1N5333B	3.3	380	3	400	300	1	20	0.85	1440
1N5334B	3.6	350	2.5	500	150	1	18.7	0.8	1320
1N5335B	3.9	320	2	500	50	1	17.6	0.54	1220
1N5336B	4.3	290	2	500	10	1	16.4	0.49	1100
1N5337B	4.7	260	2	450	5	1	15.3	0.44	1010
1N5338B	5.1	240	1.5	400	1	1	14.4	0.39	930
1N5339B	5.6	220	1	400	1	2	13.4	0.25	865
1N5340B	6	200	1	300	1	3	12.7	0.19	790
1N5341B	6.2	200	1	200	1	3	12.4	0.1	765
1N5342B	6.8	175	1	200	10	5.2	11.5	0.15	700
1N5343B	7.5	175	1.5	200	10	5.7	10.7	0.15	630
1N5344B	8.2	150	1.5	200	10	6.2	10	0.2	580
1N5345B	8.7	150	2	200	10	6.6	9.5	0.2	545
1N5346B	9.1	150	2	150	7.5	6.9	9.2	0.22	520
1N5347B	10	125	2	125	5	7.6	8.6	0.22	475
1N5348B	11	125	2.5	125	5	8.4	8	0.25	430
1N5349B	12	100	2.5	125	2	9.1	7.5	0.25	395
1N5350B	13	100	2.5	100	1	9.9	7	0.25	365
1N5351B	14	100	2.5	75	1	10.6	6.7	0.25	340
1N5352B	15	75	2.5	75	1	11.5	6.3	0.25	315
1N5353B	16	75	2.5	75	1	12.2	6	0.3	295
1N5354B	17	70	2.5	75	0.5	12.9	5.8	0.35	280
1N5355B	18	65	2.5	75	0.5	13.7	5.5	0.4	265
1N5356B	19	65	3	75	0.5	14.4	5.3	0.4	250
1N5357B	20	65	3	75	0.5	15.2	5.1	0.4	237
1N5358B	22	50	3.5	75	0.5	16.7	4.7	0.45	216
1N5359B	24	50	3.5	100	0.5	18.2	4.4	0.55	198
1N5360B	25	50	4	110	0.5	19	4.3	0.55	190
1N5361B	27	50	5	120	0.5	20.6	4.1	0.6	176
1N5362B	28	50	6	130	0.5	21.2	3.9	0.6	170
1N5363B	30	40	8	140	0.5	22.8	3.7	0.6	158
1N5364B	33	40	10	150	0.5	25.1	3.5	0.6	144
1N5365B	36	30	11	160	0.5	27.4	3.3	0.65	132
1N5366B	39	30	14	170	0.5	29.7	3.1	0.65	122
1N5367B	43	30	20	190	0.5	32.7	2.8	0.7	110
1N5368B	47	25	25	210	0.5	35.8	2.7	0.8	100
1N5369B	51	25	27	230	0.5	38.8	2.5	0.9	93
1N5370B	56	20	35	280	0.5	42.6	2.3	1	86
1N5371B	60	20	40	350	0.5	42.5	2.2	1.2	79
1N5372B	62	20	42	400	0.5	47.1	2.1	1.35	76
1N5373B	68	20	44	500	0.5	51.7	2	1.5	70
1N5374B	75	20	45	620	0.5	56	1.9	1.6	63
1N5375B	82	15	65	720	0.5	62.2	1.8	1.8	58
1N5376B	87	15	75	760	0.5	66	1.7	2	54.5
1N5377B	91	15	75	760	0.5	69.2	1.6	2.2	52.5
1N5378B	100	12	90	800	0.5	76	1.5	2.5	47.5
1N5379B	110	12	125	1000	0.5	83.6	1.4	2.5	43
1N5380B	120	10	170	1150	0.5	91.2	1.3	2.5	39.5
1N5381B	130	10	190	1250	0.5	98.8	1.2	2.5	36.6
1N5382B	140	8	230	1500	0.5	106	1.2	2.5	34

(continued)

Devices listed in bold, italic are Motorola preferred devices.

