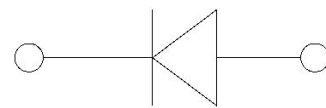


Features

- High peak reverse power dissipation
- High reliability
- Low leakage current

Mechanical Data

- Epoxy: UL94V-0 rate flame retardant
- Lead: Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any



Absolute Maximum Ratings (Rating at 25 °C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
DC Power Dissipation @ $T_L = 75^\circ\text{C}$ ¹⁾	P_D	5	W
Junction and Storage Temperature Range	T_j, T_{stg}	- 65 to + 200	°C

¹⁾ T_L = Lead temperature at 3/8" (9.5 mm) from body

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$	V_F	1.2	V

Electrical Characteristics (Rating at 25 °C ambient temperature unless otherwise specified)

Type	Zener Voltage ¹⁾				Zener Impedance				Leakage Current		Maximum DC Zener Current
	V_{Znom}	V_{ZT}		at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R	I_{ZM}
	(V)	Min.(V)	Max.(V)	(mA)	Max.(Ω)	(mA)	Max.(Ω)	(mA)	Max.(μA)	(V)	(mA)
1N5338B	5.1	4.85	5.35	240	1.5	240	400	1	1	1	930
1N5339B	5.6	5.32	5.88	220	1	220	400	1	1	2	856
1N5340B	6	5.7	6.3	200	1	200	300	1	1	3	790
1N5341B	6.2	5.89	6.51	200	1	200	200	1	1	3	765
1N5342B	6.8	6.46	7.14	175	1	175	200	1	10	5.2	700
1N5343B	7.5	7.13	7.87	175	1.5	175	200	1	10	5.7	630
1N5344B	8.2	7.79	8.61	150	1.5	150	200	1	10	6.2	580

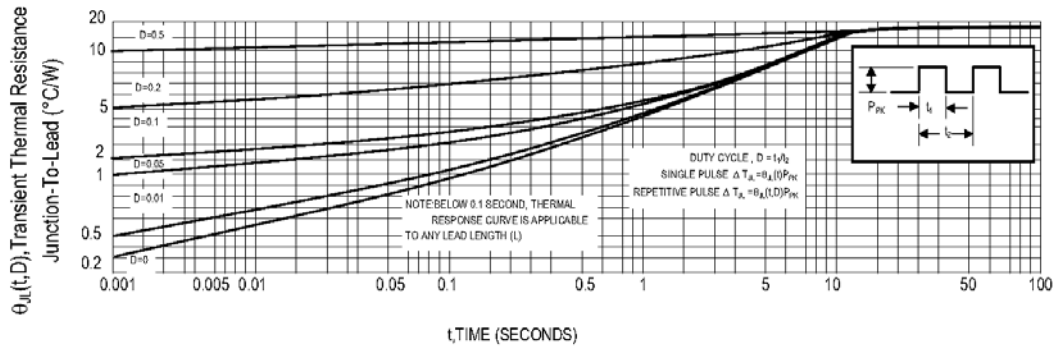


Electrical Characteristics (Rating at 25 °C ambient temperature unless otherwise specified)

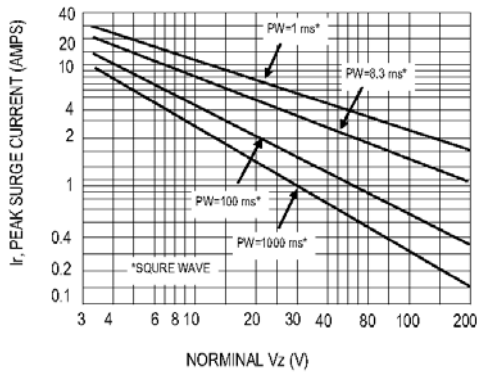
Type	Zener Voltage ¹⁾				Zener Impedance				Leakage Current		Maximum DC Zener Current
	V _{Znom}	V _{ZT}		at I _{ZT}	Z _{ZT}	at I _{ZT}	Z _{ZK}	at I _{ZK}	I _R	at V _R	I _{ZM}
	(V)	Min.(V)	Max.(V)	(mA)	Max.(Ω)	(mA)	Max.(Ω)	(mA)	Max.(μA)	(V)	(mA)
1N5345B	8.7	8.27	9.13	150	2	150	200	1	10	6.6	545
1N5346B	9.1	8.65	9.55	150	2	150	150	1	7.5	6.9	520
1N5347B	10	9.5	10.5	125	2	125	125	1	5	7.6	475
1N5348B	11	10.45	11.55	125	2.5	125	125	1	5	8.4	430
1N5349B	12	11.4	12.6	100	2.5	100	125	1	2	9.1	395
1N5350B	13	12.35	13.65	100	2.5	100	100	1	1	9.9	365
1N5351B	14	13.3	14.7	100	2.5	100	75	1	1	10.6	340
1N5352B	15	14.25	15.75	75	2.5	75	75	1	1	11.5	315
1N5353B	16	15.2	16.8	75	2.5	75	75	1	1	12.2	295
1N5354B	17	16.15	17.85	70	2.5	70	75	1	0.5	12.9	280
1N5355B	18	17.1	18.9	65	2.5	65	75	1	0.5	13.7	265
1N5356B	19	18.05	19.95	65	3	65	75	1	0.5	14.4	250
1N5357B	20	19	21	65	3	65	75	1	0.5	15.2	237
1N5358B	22	20.9	23.1	50	3.5	50	75	1	0.5	16.7	216
1N5359B	24	22.8	25.2	50	3.5	50	100	1	0.5	18.2	198
1N5360B	25	23.75	26.25	50	4	50	110	1	0.5	19	190
1N5361B	27	25.65	28.35	50	5	50	120	1	0.5	20.6	176
1N5362B	28	26.6	29.4	50	6	50	130	1	0.5	21.2	170
1N5363B	30	28.5	31.5	40	8	40	140	1	0.5	22.8	158
1N5364B	33	31.35	34.65	40	10	40	150	1	0.5	25.1	144
1N5365B	36	34.2	37.8	30	11	30	160	1	0.5	27.4	132
1N5366B	39	37.05	40.95	30	14	30	170	1	0.5	29.7	122
1N5367B	43	40.85	45.15	30	20	30	190	1	0.5	32.7	110
1N5368B	47	44.65	49.35	25	25	25	210	1	0.5	35.8	100
1N5369B	51	48.45	53.55	25	27	25	230	1	0.5	38.8	93
1N5370B	56	53.2	58.8	20	35	20	280	1	0.5	42.6	86
1N5371B	60	57	63	20	40	20	350	1	0.5	45.5	79
1N5372B	62	58.9	65.1	20	42	20	400	1	0.5	47.1	76
1N5373B	68	64.6	71.4	20	44	20	500	1	0.5	51.7	70
1N5374B	75	71.25	78.75	20	45	20	620	1	0.5	56	63
1N5375B	82	77.9	86.1	15	65	15	720	1	0.5	62.2	58
1N5376B	87	82.65	91.35	15	75	15	760	1	0.5	66	54.5
1N5377B	91	86.45	95.55	15	75	15	760	1	0.5	69.2	52.5
1N5378B	100	95	105	12	90	12	800	1	0.5	76	47.5
1N5379B	110	104.5	115.5	12	125	12	1000	1	0.5	83.6	43
1N5380B	120	114	126	10	170	10	1150	1	0.5	91.2	39.5
1N5381B	130	123.5	136.5	10	190	10	1250	1	0.5	98.8	36.6
1N5382B	140	133	147	8	230	8	1500	1	0.5	106	34
1N5383B	150	142.5	157.5	8	330	8	1500	1	0.5	114	31.6
1N5384B	160	152	168	8	350	8	1650	1	0.5	122	29.4
1N5385B	170	161.5	178.5	8	380	8	1750	1	0.5	129	28
1N5386B	180	171	189	5	430	5	1750	1	0.5	137	26.4
1N5387B	190	180.5	199.5	5	450	5	1850	1	0.5	144	25
1N5388B	200	190	210	5	480	5	1850	1	0.5	152	23.6

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

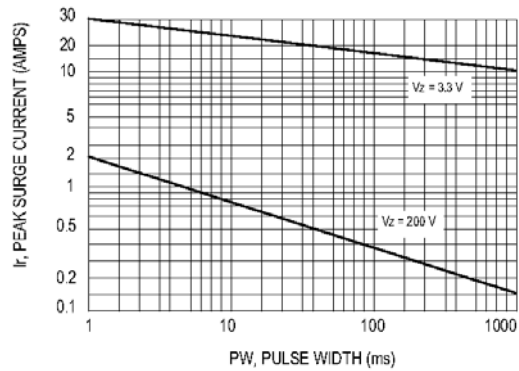
Typical Thermal Response L, Lead Length = 3/8 Inch



Maximum Non-Repetitive Surg Current versus Nominal Zener Voltage



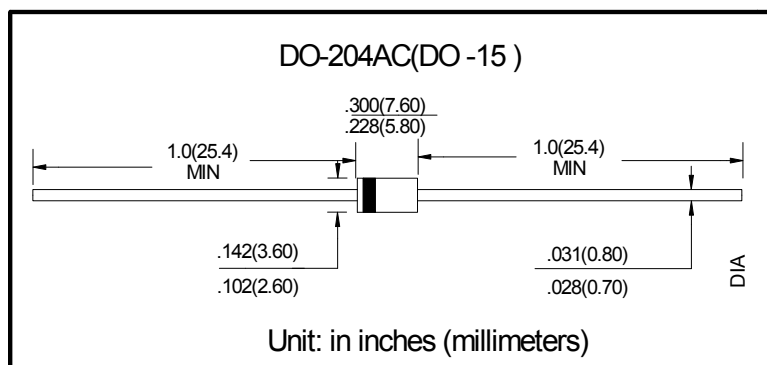
Peak Surg Current versus Pulse Width



Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N5338B THRU 1N5388B	DO-15	3000	3000	30000	Ammo box

Outline Dimensions



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