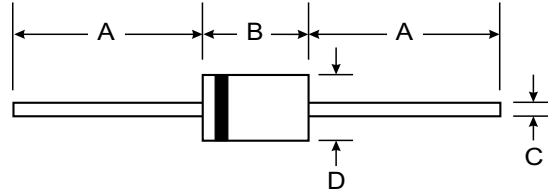


Features

- Glass passivated junction
- Hermetically sealed package
- Clamping time in picoseconds



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.35 grams (approx.)
- Mounting Position: Any

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter		Test Conditions	Type	Symbol	Value	Unit		
Power dissipation		I=10mm, T _L =25° C		P _V	3.25	W		
		T _{amb} =25° C		P _V	1.3	W		
Repetitive peak reverse power dissipation				P _{ZRM}	10	W		
Non repetitive peak surge power dissipation		t _p =100μs, T _j =25° C		P _{ZSM}	600	W		
Junction temperature				T _j	175	°C		
Storage temperature range				T _{stg}	-65...+175	°C		
Parameter	Test Conditions			Symbol	Value	Unit		
Junction ambient	I=10mm, T _L =constant			R _{thJA}	46	K/W		
	on PC board with spacing 25mm			R _{thJA}	100	K/W		
Parameter	Test Conditions		Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F =0.5A			V _F			1.2	V



Type	V _Z			r _{zi}		and TK _{VZ}		at I _Z	I _R at V _R	
BZT03D...	V			Ω		%K		mA	μA	
	Min.	Typ.	Max.	Typ.	Max.	Min.	Max.		Max.	
6V2	5.6	6.2	6.8	1	2	0	0.07	100	1500	4.4
6V8	6.1	6.8	7.5	1	2	0	0.07	100	1000	4.8
7V5	6.75	7.5	8.25	1	2	0	0.07	100	750	5.3
8V2	7.4	8.2	9.0	1	2	0.03	0.08	100	600	5.9
9V1	8.2	9.1	10.0	2	4	0.03	0.08	50	20	6.5
10	9.0	10	11.0	2	4	0.05	0.09	50	10	7.1
11	9.9	11	12.1	4	7	0.05	0.10	50	4	7.9
12	10.8	12	13.2	4	7	0.05	0.10	50	3	8.6
13	11.7	13	14.3	5	10	0.05	0.10	50	2	9.3
15	13.5	15	16.5	5	10	0.05	0.10	50	1	10.6
16	14.4	16	17.6	6	15	0.06	0.11	25	1	11.6
18	16.2	18	19.8	6	15	0.06	0.11	25	1	12.6
20	18.0	20	22.0	6	15	0.06	0.11	25	1	14.4
22	29.8	22	24.2	6	15	0.06	0.11	25	1	15.8
24	21.6	24	26.4	7	15	0.06	0.11	25	1	17.2
27	24.3	27	29.7	7	15	0.06	0.11	25	1	19.4
30	27	30	33	8	15	0.06	0.11	25	1	21.5
33	29.7	33	36.3	8	15	0.06	0.11	25	1	23.5
36	32.4	36	39.6	21	40	0.06	0.11	10	1	25.8
39	35.1	39	42.9	21	40	0.06	0.11	10	1	28
43	38.7	43	47.3	24	45	0.07	0.12	10	1	31
47	42.3	47	51.7	24	45	0.07	0.12	10	1	33.5
51	45.9	51	56.1	25	60	0.07	0.12	10	1	36.5
56	50.4	56	61.6	25	60	0.07	0.12	10	1	40
62	55.8	62	68.2	25	80	0.08	0.13	10	1	44.5
68	61.2	68	74.8	25	80	0.08	0.13	10	1	49
75	67.5	75	82.5	30	100	0.08	0.13	10	1	54
82	73.8	82	90.2	30	100	0.08	0.13	10	1	59
91	81.9	91	100	60	200	0.09	0.13	5	1	65
100	90	100	110	60	200	0.09	0.13	5	1	71
110	99	110	121	80	250	0.09	0.13	5	1	79
120	108	120	132	80	250	0.09	0.13	5	1	86
130	117	130	143	110	300	0.09	0.13	5	1	93
150	135	150	165	130	300	0.09	0.13	5	1	106
160	144	160	176	150	350	0.09	0.13	5	1	116
180	162	180	198	180	400	0.09	0.13	5	1	126
200	180	200	220	200	500	0.09	0.13	5	1	144
220	198	220	242	350	750	0.09	0.13	2	1	158
240	216	240	264	400	850	0.09	0.13	2	1	172
270	243	270	297	450	1000	0.09	0.13	2	1	194