

3459325 FAGOR ELECTRONICS

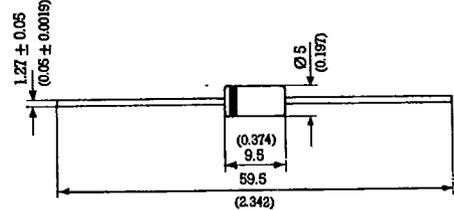
98D 00233 D



BZV48C8V2 BZV48C33V

T-11-15

5 W Zener Diodes

<p>Dimensions in mm. (inches) DO-27A (Plastic)</p>  <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 300°C. 3. Max. soldering time, 3,5 sec. 4. Do not bend lead at a point closer than 3 mm. to the body. 	<p>Voltage 8.2 to 33 V.</p> <p>Power 5.0 W</p> <p>Standard Voltage Tolerance is $\pm 5\%$</p> <ul style="list-style-type: none"> ● Diffused junction ● The plastic material carries U/L recognition 94 V-0 ● Terminals: Axial Leads ● Polarity: Color band denotes cathode
---	---

Maximum Ratings, according to IEC publication No. 134

P_{tot}	Power dissipation at $T_{amb} = 50^\circ C$	5 W
P_{ZSM}	Non repetitive peak zener dissipation ($t = 10\ ms$)	200 W
T_j	Max. operating temperature	$+ 150^\circ C$
T_{stg}	Storage temperature range	$- 50\ to\ + 150^\circ C$

Electrical Characteristics at $T_{amb} = 25^\circ C$

V_F	Max. forward voltage drop at $I_F = 3.0\ A$	1,2 V
R_{thj-a}	Max. thermal resistance at: 10 mm. lead length	$20^\circ C/W$

3459325 FAGOR ELECTRONICS

98D 00234 D



T-11-15

BZV48

Type	Nominal Zener Voltage V_z at I_{zT}	Test Current I_{zT}	Maximum Zener Impedance Z_{zT} at I_{zT}	Typical Temperature Coefficient	Maximum Reverse Leakage Current		Maximum Regulator Current I_{zA}
	(V)	(mA)	(Ω)	(%/°C)	I_R (μ A)	at V_R (V)	(mA)
BZV48C8V2	7.7-8.7	160	1.5	0.048	10	3	670
BZV48C9V1	8.5-9.6	150	2	0.051	10	6.6	520
BZV48C10	9.4-10.6	125	2	0.055	10	7.6	470
BZV48C11	10.4-11.6	125	2.5	0.060	5	8.3	430
BZV48C12	11.4-12.7	100	2.5	0.065	2	9.1	390
BZV48C13	12.4-14.1	100	2.5	0.065	1	9.9	350
BZV48C15	13.6-16.6	75	2.5	0.070	1	11.4	320
BZV48C16	15.3-17.1	75	2.5	0.070	0.5	12.2	290
BZV48C18	16.8-19.1	65	2.5	0.075	0.5	13.7	260
BZV48C20	18.6-21.2	65	3	0.075	0.5	15.2	235
BZV48C22	20.6-23.3	50	3.5	0.080	0.5	16.7	215
BZV48C24	22.8-25.6	50	3.5	0.080	0.5	18.2	195
BZV48C27	25.1-28.9	50	5	0.085	0.5	20.5	170
BZV48C30	28-32	40	8	0.085	0.5	22.8	155
BZV48C33	31-35	40	10	0.085	0.5	25	140
BZV48C36	34-38	30	11	0.085	0.5	27.4	130
BZV48C39	37-41	30	14	0.090	0.5	29.6	120
BZV48C43	40-46	30	20	0.090	0.5	32.7	110
BZV48C47	44-50	25	25	0.090	0.5	35.7	100
BZV48C51	48-54	25	27	0.090	0.5	38.8	92
BZV48C56	52-60	20	35	0.090	0.5	42.5	83
BZV48C62	58-66	20	42	0.090	0.5	47.1	75
BZV48C68	64-72	20	44	0.090	0.5	51.7	69
BZV48C75	70-79	20	45	0.090	0.5	57	63
BZV48C83	77-87	15	65	0.090	0.5	62.4	57
BZV48C91	85-96	15	75	0.090	0.5	69.2	52
BZV48C100	94-106	12	90	0.090	0.5	76	47
BZV48C110	104-116	12	125	0.095	0.5	83.5	43
BZV48C120	114-127	10	170	0.095	0.5	91.2	39
BZV48C130	124-141	10	190	0.095	0.5	98.8	35
BZV48C150	138-156	8	330	0.095	0.5	114	32
BZV48C160	153-171	8	350	0.095	0.5	122	29
BZV48C180	168-191	5	430	0.095	0.5	137	26
BZV48C200	188-212	5	480	0.100	0.5	152	23

Standard Voltage Tolerance in \pm 5%. Other Tolerances, Non-Standard Zener Voltages Upon Request.



BZV48

3459325 FAGOR ELECTRONICS

98D 00235 D

Characteristic Curves

T-11-15

