



Zener diode

Features

1. Low profile package
2. Excellent clamping capability
3. Glass passivated junction
4. Low zener impedance
5. High reliability



Applications

Voltage stabilization

Absolute Maximum Ratings

$T_j=25^{\circ}\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	$T_{\text{amb}} \leq 50^{\circ}\text{C}$		P_V	2	W
Junction temperature			T_j	150	$^{\circ}\text{C}$
Storage temperature range			T_{stg}	-55~+175	$^{\circ}\text{C}$

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

Electrical Characteristics

$T_j=25^{\circ}\text{C}$

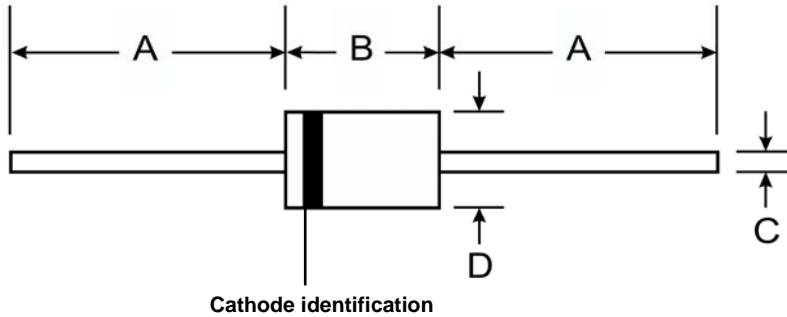
Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=200\text{mA}$		V_F			1.2	V



Type	Zener Voltage			Dynamic Resistance		Reverse Current		Z-current
	V _Z (V)		Test Condition	r _d (Ω)	Test Condition	I _R (μA)	Test Condition	I _{Zmax} (mA) @T _a =50°C
	Min	Max	I _Z (mA)	Max	I _Z (mA)	Max	V _R (V)	Max
ZY5.1	4.8	5.4	100	5	100	2	1	333
ZY5.6	5.2	6.0	100	3	100	1	1	300
ZY6.2	5.8	6.6	100	2	100	1	1.5	273
ZY6.8	6.4	7.2	100	2	100	1	2	250
ZY7.5	7.0	7.9	100	2	100	1	2	228
ZY8.2	7.7	8.7	100	2	100	1	3.5	207
ZY9.1	8.5	9.6	50	4	50	1	3.5	188
ZY10	9.4	10.6	50	4	50	1	5	170
ZY11	10.4	11.6	50	6	50	1	5	155
ZY12	11.4	12.7	50	7	50	1	7	142
ZY13	12.4	14.1	50	9	50	1	7	128
ZY15	13.8	15.6	50	10	50	1	10	115
ZY16	15.3	17.1	25	12	25	1	10	105
ZY18	16.8	19.1	25	15	25	1	10	94
ZY20	18.8	21.2	25	15	25	1	10	85
ZY22	20.8	23.3	25	15	25	1	12	77
ZY24	22.8	25.6	25	15	25	1	12	70
ZY27	25.1	28.9	25	15	25	1	14	62
ZY30	28	32	25	15	25	1	14	56
ZY33	31	35	25	15	25	1	17	51
ZY36	34	38	10	30	10	1	17	47
ZY39	37	41	10	40	10	1	20	44
ZY43	40	46	10	40	10	1	20	39
ZY47	44	50	10	40	10	1	24	36
ZY51	48	54	10	60	10	1	24	33



Dimensions in mm



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.000	---	25.40	---
B	0.166	0.205	4.10	5.20
C	0.028	0.034	0.70	0.90
D	0.080	0.107	2.00	2.70

Case: molded plastic DO-41

Polarity: cathode band

Marking: type number

Marking

