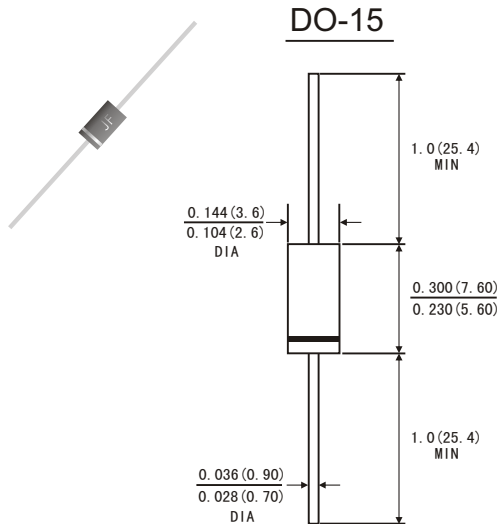


FEATURES

- Low leakage, low zener impedance at low current
- Maximum power dissipation of 3W is ideally suited for stabilized power supply, etc.
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

- Case: DO-15 molded plastic
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- *Polarity:* Color band denotes cathode end



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) (TA=25°C)

	<i>Symbols</i>	<i>Value</i>	<i>Units</i>
Zener current see table "Characteristics"			
Power dissipation	P _{tot}	3	W
Junction temperature	T _J	200	°C
Storage temperature range	T _{STG}	-65 to +200	°C

1) Valid provided that a distance of 8mm from case is kept at ambient temperature

ELECTRICAL CHARACTERISTICS (TA=25°C)

	<i>Symbols</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>	<i>Units</i>
Thermal resistance junction to ambient	R _{θJA}			50 ¹⁾	°C/W
Forward voltage at I _F =200mA	V _F			1.2	V

1) Valid provided that a distance of 8mm from case is kept at ambient temperature

PZY6.8... PLASTIC PACKAGE ZENER DIODES

Electrical characteristics (TA=25°C)

Type	Nominal Zener voltage		Maximum Zener impedance			Maximum reverse leakage current		Max regulator zener current
	Vz@IzT	IzT	ZzT@IzT	Zzx@Izx	Izx	IR@VR	VR	IzM@50°C
	V	mA	Ω	Ω	mA	uA	V	mA
PZY6.8	6.8	110	2.0	700	1.0	5.0	4.0	393
PZY7.5	7.5	110	2.0	700	0.5	5.0	5.0	360
PZY8.2	8.2	91	2.3	700	0.5	5.0	6.0	330
PZY9.1	9.1	82	2.5	700	0.5	3.0	7.0	297
PZY10	10	75	3.5	700	0.25	3.0	7.6	270
PZY11	11	68	4.0	700	0.25	1.0	8.4	246
PZY12	12	63	4.5	700	0.25	1.0	9.1	225
PZY13	13	58	4.5	700	0.25	0.5	9.9	208
PZY14	14	53	5.0	700	0.25	0.5	10.6	193
PZY15	15	50	5.5	700	0.25	0.5	11.4	180
PZY16	16	47	5.5	700	0.25	0.5	12.2	169
PZY17	17	44	6.0	750	0.25	0.5	13.0	159
PZY18	18	42	6.0	750	0.25	0.5	13.7	150
PZY19	19	40	7.0	750	0.25	0.5	14.4	142
PZY20	20	37	7.0	750	0.25	0.5	15.2	135
PZY22	22	34	8.0	750	0.25	0.5	16.7	123
PZY24	24	31	9.0	750	0.25	0.5	18.2	112
PZY27	27	28	10	750	0.25	0.5	20.6	100
PZY28	28	27	12	750	0.25	0.5	21.0	96
PZY30	30	25	16	1000	0.25	0.5	22.5	90
PZY33	33	23	20	1000	0.25	0.5	25.1	82
PZY36	36	21	22	1000	0.25	0.5	27.4	75
PZY39	39	19	28	1000	0.25	0.5	29.7	69
PZY43	43	17	33	1500	0.25	0.5	32.7	63
PZY47	47	16	38	1500	0.25	0.5	35.6	57
PZY51	51	15	45	1500	0.25	0.5	38.8	53
PZY56	56	13	50	2000	0.25	0.5	42.6	48
PZY62	62	12	55	2000	0.25	0.5	47.1	44
PZY68	68	11	70	2000	0.25	0.5	51.7	40
PZY75	75	10	85	2000	0.25	0.5	56.0	36
PZY82	82	9.1	95	3000	0.25	0.5	62.2	33
PZY91	91	8.2	115	3000	0.25	0.5	69.2	30
PZY100	100	7.5	160	3000	0.25	0.5	76.0	27
PZY110	110	6.8	225	4000	0.25	0.5	83.6	25
PZY120	120	6.3	300	4500	0.25	0.5	91.2	22
PZY130	130	5.8	375	5000	0.25	0.5	98.8	21
PZY140	140	5.3	475	5000	0.25	0.5	106.4	19
PZY150	150	5.0	550	6000	0.25	0.5	114.0	18
PZY160	160	4.7	625	6500	0.25	0.5	121.6	17
PZY170	170	4.4	650	7000	0.25	0.5	130.4	16
PZY180	180	4.2	700	7000	0.25	0.5	136.8	15
PZY190	190	4.0	800	8000	0.25	0.5	144.8	14
PZY200	200	3.7	900	8000	0.25	0.5	152.0	13

Note:

1. Standard zener voltage tolerance available is $\pm 10\%$.