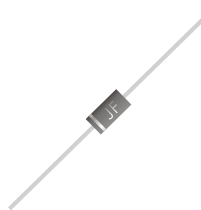


### FEATURES

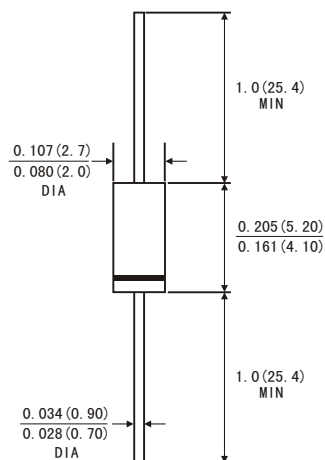
- Low leakage, low zener impedance at low current
- Maximum power dissipation of 2W is ideally suited for stabilized power supply, etc.
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

### MECHANICAL DATA

- Case: DO-41 molded plastic
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- *Polarity:* Color band denotes cathode end



### DO-41



### 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 <sub>tot</sub>	2	W
Junction temperature	T <sub>J</sub>	200	°C
Storage temperature range	T <sub>STG</sub>	-50 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>Max</i>	<i>Units</i>
Thermal resistance junction to ambient	R <sub>θJA</sub>		65 <sup>1)</sup>	°C/W
Forward voltage at I <sub>F</sub> =200mA	V <sub>F</sub>		1.2	V

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

# ZY6.8... PLASTIC PACKAGE ZENER DIODES

Electrical characteristics (TA=25°C)

Type	Zener voltage at IZT		Test current	Dynamic resistance (f=1KHZ)	Temp. Coefficient of zener voltage		Reverse voltage at IR=1uA	Max regulator zener current
	VZmin@IZT	VZmax@IZT	IZT	ZZTmax@IZT	aVZmin@IZT	aVZmax@IZT	VRmin@IR=1uA	IZM@25°C
	V	V	mA	Ω	10 <sup>-4</sup> /°C	10 <sup>-4</sup> /°C	V	mA
ZY6.8	6.4	7.2	100	2.0	0	+7	2	220
ZY7.5	7.0	7.9	100	2.0	0	+7	2	200
ZY8.2	7.7	8.7	100	2.0	+3	+8	3.5	180
ZY9.1	8.5	9.6	50	4.0	+3	+8	7.4	165
ZY10	9.4	10.6	50	4.0	+5	+9	8.2	145
ZY11	10.4	11.6	50	7.0	+5	+10	9.2	135
ZY12	11.4	12.7	50	7.0	+5	+10	10.0	120
ZY13	12.4	14.1	50	10	+5	+10	10.7	110
ZY15	13.8	15.6	50	10	+5	+10	12.0	98
ZY16	15.3	17.1	25	15	+6	+11	13.3	90
ZY18	16.8	19.1	25	15	+6	+11	14.7	80
ZY20	18.8	21.2	25	15	+6	+11	16.5	72
ZY22	20.8	23.3	25	15	+6	+11	18.3	66
ZY24	22.8	25.6	25	15	+6	+11	20.1	60
ZY27	25.1	28.9	25	15	+6	+11	22.5	53
ZY30	28	32	25	15	+6	+11	25.1	48
ZY33	31	35	25	15	+6	+11	27.8	44
ZY36	34	38	10	40	+6	+11	30.2	40
ZY39	37	41	10	40	+6	+11	32.9	37
ZY43	40	46	10	45	+7	+12	35.6	33
ZY47	44	50	10	45	+7	+12	39.2	30
ZY51	48	54	10	60	+7	+12	42.8	27
ZY56	52	60	10	60	+7	+12	47.3	25
ZY62	58	66	10	80	+8	+13	51.3	21
ZY68	64	72	10	80	+8	+13	57.1	20
ZY75	70	79	10	100	+8	+13	63.2	18
ZY82	77	88	10	100	+8	+13	68.6	16
ZY91	85	96	5	200	+9	+13	75.6	15
ZY100	94	106	5	200	+9	+13	83.7	13
ZY110	104	116	5	250	+9	+13	93.8	12
ZY120	114	127	5	250	+9	+13	101.6	11
ZY130	124	141	5	300	+9	+13	110.5	10
ZY150	138	156	5	300	+9	+13	123	9
ZY160	153	171	5	350	+9	+13	136	8.5
ZY180	168	191	5	350	+9	+13	149	8.0
ZY200	188	212	5	350	+9	+13	167	7.5

**Note:**

1. Standard zener voltage tolerance available is  $\pm 5\%$ .