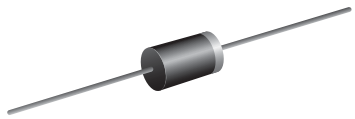
ZY3.6S -ZY200S

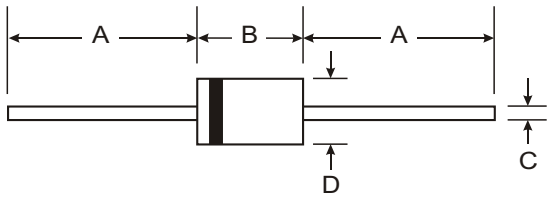
AXIAL LEADED SILICON ZENER DIODES

VOLTAGE RANGE: 3.6 - 200V
POWER: 2.0Watts



Features

- Complete Voltage Range 3.6 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current



Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight: 0.34 grams (approx.)

RoHS COMPLIANT

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°C unless otherwise specified

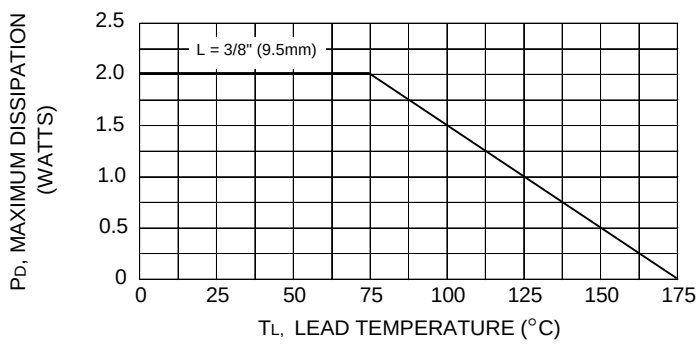
Single phase, half wave, 60Hz, resistive or inductive load.

Rating	Symbol	Value	Unit
DC Power Dissipation at T_L = 75 °C (Note1)	P_D	2.0	Watts
Maximum Forward Voltage at I_F = 200 mA	V_F	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	RθJA	60	K / W
Junction Temperature Range	T_J	- 55 to + 175	°C
Storage Temperature Range	Ts	- 55 to + 175	°C

Note :

(1) T_L = Lead temperature at 3/8 " (9.5mm) from body
(2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Fig. 1 POWER TEMPERATURE DERATING CURVE



TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V_Z @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @ V_R		I_{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
ZY3.6S	3.6	139	5.0	400	1.0	80	1.0	504
ZY3.9S	3.9	128	5.0	400	1.0	30	1.0	468
ZY4.3S	4.3	116	4.5	400	1.0	20	1.0	434
ZY4.7S	4.7	106	4.5	550	1.0	5.0	1.0	386
ZY5.1S	5.1	98.0	3.5	600	1.0	5.0	1.0	356
ZY5.6S	5.6	89.5	2.5	500	1.0	5.0	2.0	324
ZY6.2S	6.2	80.5	1.5	700	1.0	5.0	3.0	292
ZY6.8S	6.8	73.5	2.0	700	1.0	5.0	4.0	266
ZY7.5S	7.5	66.5	2.0	700	0.5	50	5.0	242
ZY8.2S	8.2	61.0	2.3	700	0.5	50	6.0	220
ZY9.1S	9.1	55.0	2.5	700	0.5	50	7.0	200
ZY10S	10	50.0	3.5	700	0.25	50	7.6	182
ZY11S	11	45.5	4.0	700	0.25	50	8.4	166
ZY12S	12	41.5	4.5	700	0.25	1.0	9.1	152
ZY13S	13	38.5	5.0	700	0.25	0.5	9.9	138
ZY14S	14	35.7	5.5	700	0.25	0.5	10.6	130
ZY15S	15	33.4	7.0	700	0.25	0.5	11.4	122
ZY16S	16	31.2	8.0	700	0.25	0.5	12.2	114
ZY17S	17	29.4	9.0	750	0.25	0.5	13.0	107
ZY18S	18	27.8	10	750	0.25	0.5	13.7	100
ZY19S	19	26.3	11	750	0.25	0.5	14.4	95
ZY20S	20	25.0	11	750	0.25	0.5	15.2	90
ZY22S	22	22.8	12	750	0.25	0.5	16.7	82
ZY24S	24	20.8	13	750	0.25	0.5	18.2	76
ZY27S	27	18.5	18	750	0.25	0.5	20.6	68
ZY30S	30	16.6	20	1000	0.25	0.5	22.5	60
ZY33S	33	15.1	23	1000	0.25	0.5	25.1	55
ZY36S	36	13.9	25	1000	0.25	0.5	27.4	50
ZY39S	39	12.8	30	1000	0.25	0.5	29.7	47
ZY43S	43	11.6	35	1500	0.25	0.5	32.7	43
ZY47S	47	10.6	40	1500	0.25	0.5	35.8	39
ZY51S	51	9.8	48	1500	0.25	0.5	38.8	36
ZY56S	56	9.0	55	2000	0.25	0.5	42.6	32
ZY62S	62	8.1	60	2000	0.25	0.5	47.1	29
ZY68S	68	7.4	75	2000	0.25	0.5	51.7	27
ZY75S	75	6.7	90	2000	0.25	0.5	56.0	24
ZY82S	82	6.1	100	3000	0.25	0.5	62.2	22
ZY91S	91	5.5	125	3000	0.25	0.5	69.2	20
ZY100S	100	5.0	175	3000	0.25	0.5	76.0	18
ZY110S	110	4.5	250	4000	0.25	0.5	83.6	17
ZY120S	120	4.2	325	4500	0.25	0.5	91.2	15
ZY130S	130	3.8	400	5000	0.25	0.5	98.8	14
ZY140S	140	3.6	500	5500	0.25	0.5	106.4	13
ZY150S	150	3.3	575	6000	0.25	0.5	114.0	12
ZY160S	160	3.1	650	6500	0.25	0.5	121.6	11
ZY170S	170	2.9	675	7000	0.25	0.5	130.4	11
ZY180S	180	2.8	725	7000	0.25	0.5	136.8	10
ZY190S	190	2.6	825	8000	0.25	0.5	144.8	10
ZY200S	200	2.5	900	8000	0.25	0.5	152.0	9.0

Note : (1) " S " DO-41