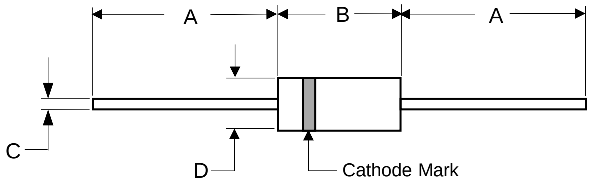
JGD

2EZ5.1D5 THRU 2EZ75D5

2W Glass Passivated Junction Silicon Zener Diodes

Features

* Glass Passivation Junction
* Excellent Clamping Capability



RoHS COMPLIANT

DO-41				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.000	---	25.40	---
B	0.165	0.205	4.20	5.20
C	0.028	0.035	0.70	0.90
D	0.079	0.106	2.00	2.70

Mechanical Data

* Epoxy meets UL 94 V-0 flammability rating
* Moisture Sensitivity Level 1
* TERMINALS : Solder plated, solderable per MIL-STD-750,method 2026
* POLARITY : Color band denotes positive end (cathode)

Maximum Ratings (T_A=25℃ unless otherwise noted)

Steady Power Dissipation (Note 1) Derate above 75℃	P_D	2 36	Watts mW/℃
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Note 2)	I_{FSM}	15	Amps
Operating And Storage Temperature Range	T_J / T_{STG}	-55 to +150	℃

NOTES:

1. Mounted on 5.0mm^2(.013mm thick) land areas.
2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

2EZ5.1D5 THRU 2EZ75D5

2W Glass Passivated Junction Silicon Zener Diodes

Electrical Characteristics (TA=25℃ unless otherwise noted)

Type No. (Note 1.)	Nominal Zener Voltage Vz @IZT volts (Note 2.)	Test current IZT mA	Maximum Zener Impedance (Note 3)			Leakage Current		Maximum Zener Current IZM mA
			ZZT @ IZT	ZZK @ IZK	IZK	IR	VR	
			Ohms	Ohms	mA	uA Max	Volts	
2EZ5.1D5	5.1	98	3.5	600	1	5	1	356
2EZ5.6D5	5.6	89.5	2.5	500	1	5	2	324
2EZ6.2D5	6.2	80.5	1.5	700	1	5	3	292
2EZ6.8D5	6.8	73.5	2	700	1	5	4	266
2EZ7.5D5	7.5	66.5	2	700	0.5	5	5	242
2EZ8.2D5	8.2	61	2.3	700	0.5	5	6	220
2EZ9.1D5	9.1	55	2.5	700	0.5	3	7	200
2EZ10D5	10	50	3.5	700	0.25	3	7.6	182
2EZ11D5	11	45.5	4	700	0.25	1	8.4	166
2EZ12D5	12	41.5	4.5	700	0.25	1	9.1	152
2EZ13D5	13	38.5	5	700	0.25	0.5	9.9	138
2EZ14D5	14	35.7	5.5	700	0.25	0.5	10.6	130
2EZ15D5	15	33.4	7	700	0.25	0.5	11.4	122
2EZ16D5	16	31.2	8	700	0.25	0.5	12.2	114
2EZ17D5	17	29.4	9	750	0.25	0.5	13	107
2EZ18D5	18	27.8	10	750	0.25	0.5	13.7	100
2EZ19D5	19	26.3	11	750	0.25	0.5	14.4	95
2EZ20D5	20	25	11	750	0.25	0.5	15.2	90
2EZ22D5	22	22.8	12	750	0.25	0.5	16.7	82
2EZ24D5	24	20.8	13	750	0.25	0.5	18.2	76
2EZ27D5	27	18.5	18	750	0.25	0.5	20.6	68
2EZ30D5	30	16.6	20	1000	0.25	0.5	22.5	60
2EZ33D5	33	15.1	23	1000	0.25	0.5	25.1	55
2EZ36D5	36	13.9	25	1000	0.25	0.5	27.4	50
2EZ39D5	39	12.8	30	1000	0.25	0.5	29.7	47
2EZ43D5	43	11.6	35	1500	0.25	0.5	32.7	43
2EZ47D5	47	10.6	40	1500	0.25	0.5	35.8	39
2EZ51D5	51	9.8	48	1500	0.25	0.5	38.8	36
2EZ56D5	56	9	55	2000	0.25	0.5	42.6	32
2EZ62D5	62	8.1	60	2000	0.25	0.5	47.1	29
2EZ68D5	68	7.4	75	2000	0.25	0.5	51.7	27
2EZ75D5	75	6.7	90	2000	0.25	0.5	56	24

Notes:

1. TOLERANCES - Suffix indicates 5% tolerance any other tolerance will be considered as a special device.
2. ZENER VOLTAGE (Vz) MEASUREMENT - guarantees the zener voltage when measured at 40 ms from the diode body, and an ambient temperature of 25.

3.ZENER IMPEDANCE (Zz) DERIVATION - The zener impedance is derived from the 60 cycle ac voltage, which results when an ac current having an rms falue equal to 10% of the dc zener . current (IZT or IZK) is superimposed on IZT or IZK.

Ratings and Characteristic Curves

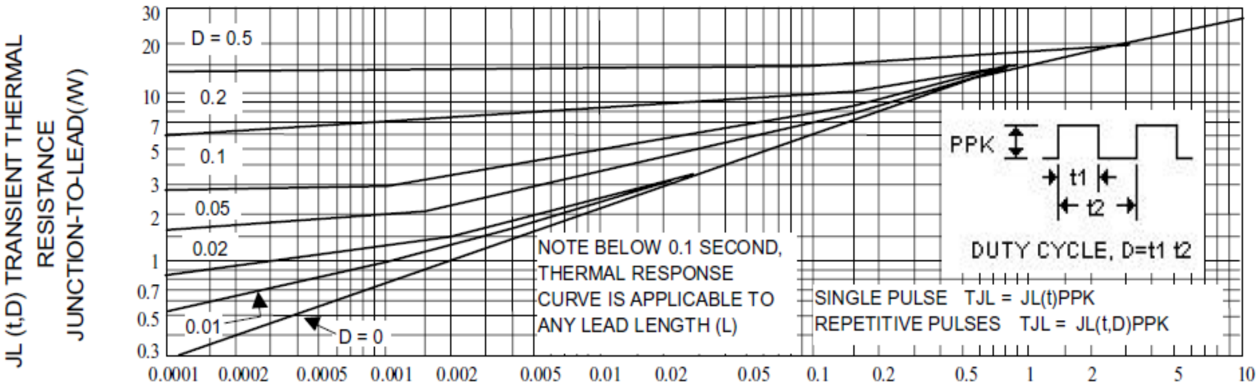


Fig. 1-TYPICAL THERMAL RESPONSE

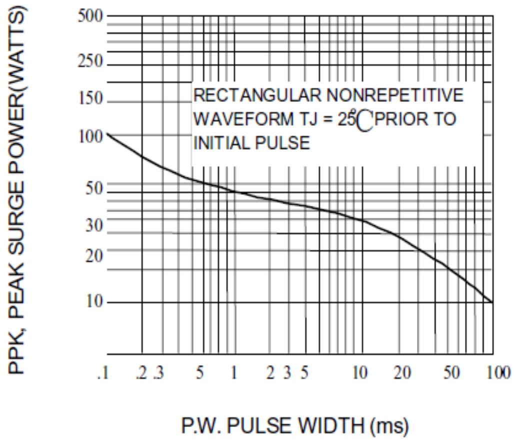


Fig. 2-MAXIMUM SURGE POWER

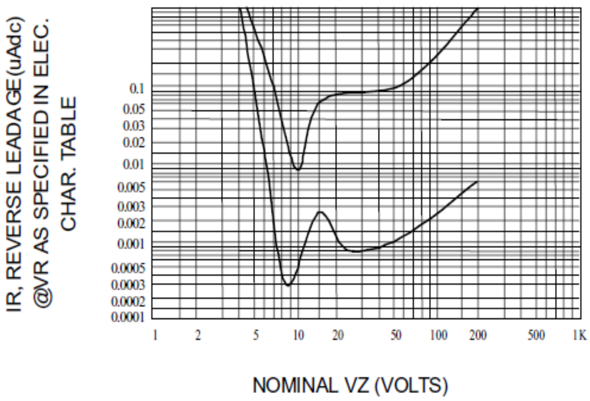


Fig. 3-TYPICAL REVERSE LEAKAGE

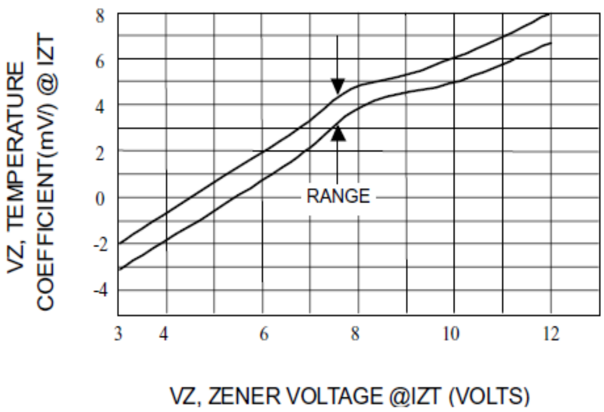


Fig. 4-UNITS 3.9 TO 12 VOLTS

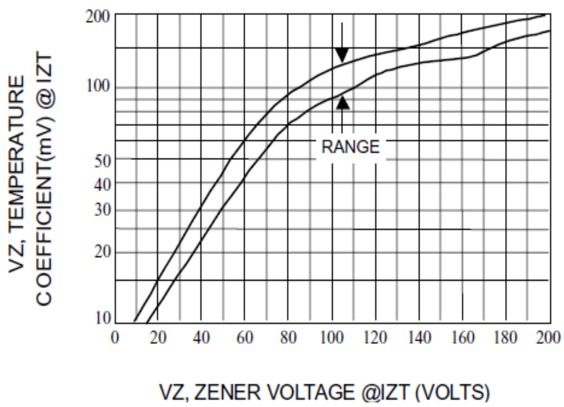


Fig. 5-UNITS 10 TO 200 VOLTS

Ratings and Characteristic Curves

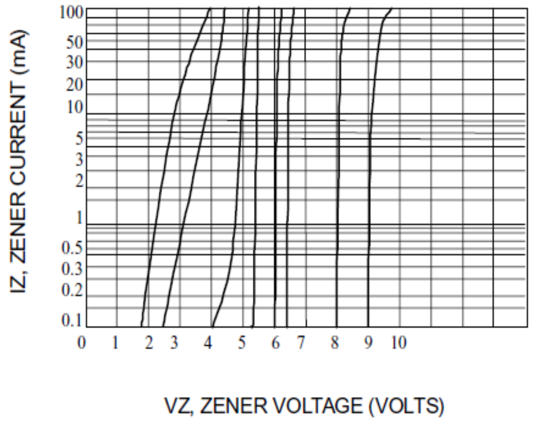


Fig. 6-VZ = 3.9 THRU 10 VOLTS

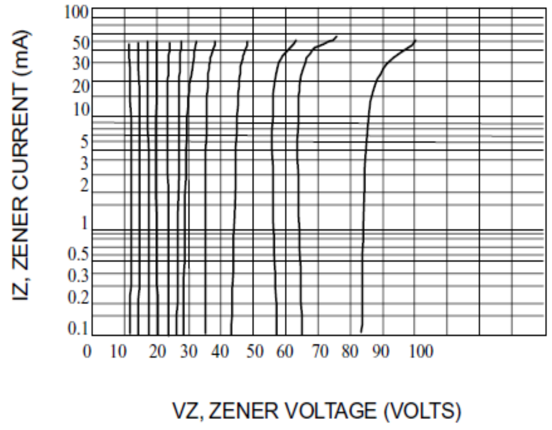


Fig. 7-VZ = 12 THRU 82 VOLTS

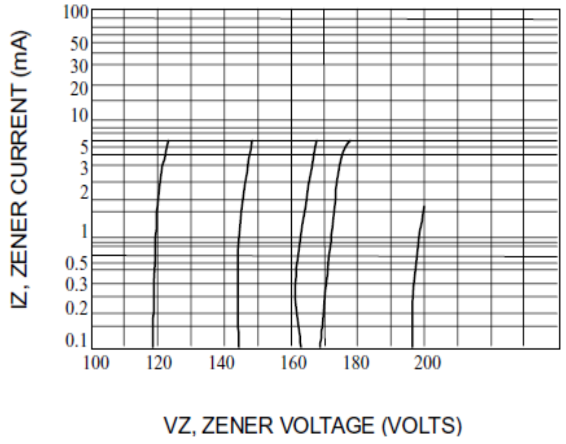


Fig. 8-VZ = 100 THRU 200 VOLTS

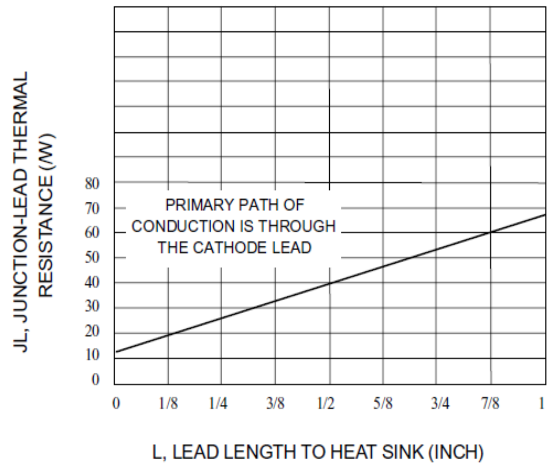


Fig. 9-TYPICAL THERMAL RESISTANCE

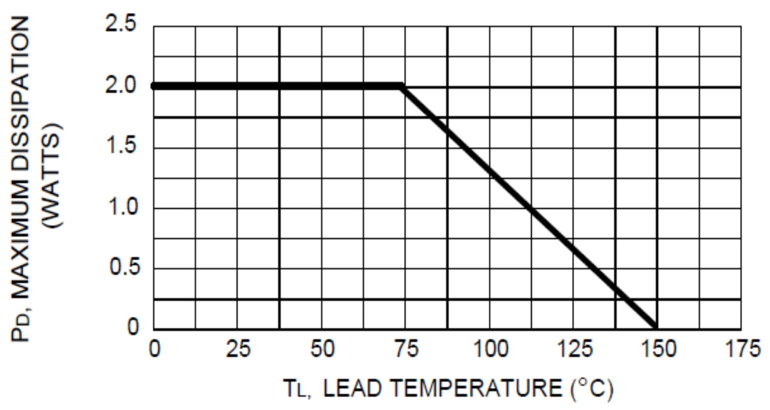


Fig. 10- POWER TEMPERATURE DERATING CURVE

Ordering Information

Part No.	Package	Packing Code	Packing
2EZ5.1D5 THRU 2EZ75D5	DO-41	B10	1000pcs/Bulk
2EZ5.1D5 THRU 2EZ75D5	DO-41(52mm)	A50	5000pcs/Ammo
2EZ5.1D5 THRU 2EZ75D5	DO-41(26mm)	S50	5000pcs/Ammo
2EZ5.1D5 THRU 2EZ75D5	DO-41	R50	5000pcs/Reel