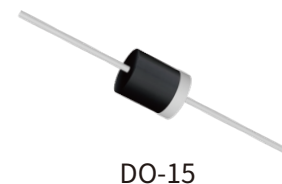


FEATURES

- | Glass passivated chip
- | Built-in strain relief
- | Low inductance
- | High peak reverse power dissipation
- | Low reverse leakage
- | For use in stabilizing and clipping with high power rating



DO-15

MECHANICAL DATA

- | Case: DO-15 Molded plastic
- | Polarity: Color band denotes cathode end
- | Mounting position: Any

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
DC Power dissipation at $T_L = 75^{\circ}\text{C}^{(1)}$	P_D	2.0	W
Maximum forward voltage at $I_F=200\text{mA}$	V_F	1.2	V
Junction temperature range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$
Storage temperature range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$

Note:

(1) T_L =Lead temperature at 3/8" (9.5mm) from body

ELECTRICAL CHARACTERISTICS

Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (uA)@V _R	V _R (V)	
2EZ3.3AD5	2EZ3.3A	3.3	3.14	3.47	145.0	8.0	400	1.00	100	1.0	548.0
2EZ3.6AD5	2EZ3.6A	3.6	3.42	3.78	139.0	5.0	400	1.00	100	1.0	502.0
2EZ3.9AD5	2EZ3.9A	3.9	3.71	4.10	128.0	5.0	400	1.00	50	1.0	464.0
2EZ4.3AD5	2EZ4.3A	4.3	4.09	4.52	116.0	4.5	400	1.00	50	1.0	421.0
2EZ4.7AD5	2EZ4.7A	4.7	4.47	4.94	106.0	4.5	550	1.00	10	1.0	385.0
2EZ5.1AD5	2EZ5.1A	5.1	4.85	5.36	98.0	3.5	600	1.00	10	1.0	354.0
2EZ5.6AD5	2EZ5.6A	5.6	5.32	5.88	89.5	2.5	500	1.00	10	1.0	323.0
2EZ6.2AD5	2EZ6.2A	6.2	5.89	6.51	80.5	1.5	700	1.00	10	3.0	292.0
2EZ6.8AD5	2EZ6.8A	6.8	6.46	7.14	73.5	2.0	700	1.00	10	4.0	266.0
2EZ7.5AD5	2EZ7.5A	7.5	7.13	7.88	66.5	2.0	700	0.50	10	5.0	242.0
2EZ8.2AD5	2EZ8.2A	8.2	7.79	8.61	61.0	2.3	700	0.50	10	6.0	220.0
2EZ9.1AD5	2EZ9.1A	9.1	8.65	9.56	55.0	2.5	700	0.50	10	7.0	200.0
2EZ10AD5	2EZ10A	10.0	9.50	10.50	50.0	3.5	700	0.25	10	7.6	182.0
2EZ11AD5	2EZ11A	11.0	10.45	11.55	45.5	4.0	700	0.25	0.5	8.4	166.0
2EZ12AD5	2EZ12A	12.0	11.40	12.60	41.5	4.5	700	0.25	0.5	9.1	152.0
2EZ13AD5	2EZ13A	13.0	12.35	13.65	38.5	5.0	700	0.25	0.5	9.9	138.0
2EZ14AD5	2EZ14A	14.0	13.30	14.70	35.7	5.5	700	0.25	0.5	10.6	130.0
2EZ15AD5	2EZ15A	15.0	14.25	15.75	33.4	7.0	700	0.25	0.5	11.4	122.0
2EZ16AD5	2EZ16A	16.0	15.20	16.80	31.2	8.0	700	0.25	0.5	12.2	114.0
2EZ17AD5	2EZ17A	17.0	16.15	17.85	29.4	9.0	750	0.25	0.5	13.0	107.0
2EZ18AD5	2EZ18A	18.0	17.10	18.90	27.8	10.0	750	0.25	0.5	13.7	100.0
2EZ19AD5	2EZ19A	19.0	18.05	19.95	26.3	11.0	750	0.25	0.5	14.4	95.0
2EZ20AD5	2EZ20A	20.0	19.00	21.00	25.0	11.0	750	0.25	0.5	15.2	90.0
2EZ22AD5	2EZ22A	22.0	20.90	23.10	22.8	12.0	750	0.25	0.5	16.7	82.0
2EZ24AD5	2EZ24A	24.0	22.80	25.20	20.8	13.0	750	0.25	0.5	18.2	76.0
2EZ27AD5	2EZ27A	27.0	25.65	28.35	18.5	18.0	750	0.25	0.5	20.6	68.0
2EZ30AD5	2EZ30A	30.0	28.50	31.50	16.6	20.0	1000	0.25	0.5	22.5	60.0
2EZ33AD5	2EZ33A	33.0	31.35	34.65	15.1	23.0	1000	0.25	0.5	25.1	55.0
2EZ36AD5	2EZ36A	36.0	34.20	37.80	13.9	25.0	1000	0.25	0.5	27.4	50.0
2EZ39AD5	2EZ39A	39.0	37.05	40.95	12.8	30.0	1000	0.25	0.5	29.7	47.0
2EZ43AD5	2EZ43A	43.0	40.85	45.15	11.6	35.0	1500	0.25	0.5	32.7	43.0
2EZ47AD5	2EZ47A	47.0	44.65	49.35	10.6	40.0	1500	0.25	0.5	35.8	39.0
2EZ51AD5	2EZ51A	51.0	48.45	53.55	9.8	48.0	1500	0.25	0.5	38.8	36.0

Part Number	Device Marking Code	Nominal Zener Voltage @ I_T			I_{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		$V_{Z\text{AVE.}}$ (V)	$V_{Z\text{MIN.}}$ (V)	$V_{Z\text{MAX.}}$ (V)		$Z_{ZT\text{MAX.}}$ (Ω) @ I_{ZT}	$Z_{ZK\text{MAX.}}$ (Ω) @ I_{ZK}	I_{ZK} (mA)	I_R (uA) @ V_R	V_R (V)	
2EZ56AD5	2EZ56A	56.0	53.20	58.80	9.0	55.0	2000	0.25	0.5	42.6	32.0
2EZ62AD5	2EZ62A	62.0	58.90	65.10	8.1	60.0	2000	0.25	0.5	47.1	29.0
2EZ68AD5	2EZ68A	68.0	64.60	71.40	7.4	75.0	2000	0.25	0.5	51.7	27.0
2EZ75AD5	2EZ75A	75.0	71.25	78.75	6.7	90.0	2000	0.25	0.5	56.0	24.0
2EZ82AD5	2EZ82A	82.0	77.90	86.10	6.1	100.0	3000	0.25	0.5	62.2	22.0
2EZ91AD5	2EZ91A	91.0	86.45	95.55	5.5	125.0	3000	0.25	0.5	69.2	20.0
2EZ100AD5	2EZ100A	100.0	95.00	105.00	5.0	175.0	3000	0.25	0.5	76.0	18.0
2EZ110AD5	2EZ110A	110.0	104.50	115.50	4.5	250.0	4000	0.25	0.5	83.6	17.0
2EZ120AD5	2EZ120A	120.0	114.00	126.00	4.2	325.0	4500	0.25	0.5	91.2	15.0
2EZ130AD5	2EZ130A	130.0	123.50	136.50	3.8	400.0	5000	0.25	0.5	98.8	14.0
2EZ140AD5	2EZ140A	140.0	133.00	147.00	3.6	500.0	5500	0.25	0.5	106.4	13.0
2EZ150AD5	2EZ150A	150.0	142.50	157.50	3.3	575.0	6000	0.25	0.5	114.0	12.0
2EZ160AD5	2EZ160A	160.0	152.00	168.00	3.1	650.0	6500	0.25	0.5	121.6	11.0
2EZ170AD5	2EZ170A	170.0	161.50	178.50	2.9	675.0	7000	0.25	0.5	130.4	11.0
2EZ180AD5	2EZ180A	180.0	171.00	189.00	2.8	725.0	7000	0.25	0.5	136.8	10.0
2EZ190AD5	2EZ190A	190.0	180.50	199.50	2.6	825.0	8000	0.25	0.5	144.8	10.0
2EZ200AD5	2EZ200A	200.0	190.00	210.00	2.5	1900.0	9990	0.25	0.5	152.0	9.0

CHARACTERISTIC CURVES

Fig.1-Power Temperature Derating Curve

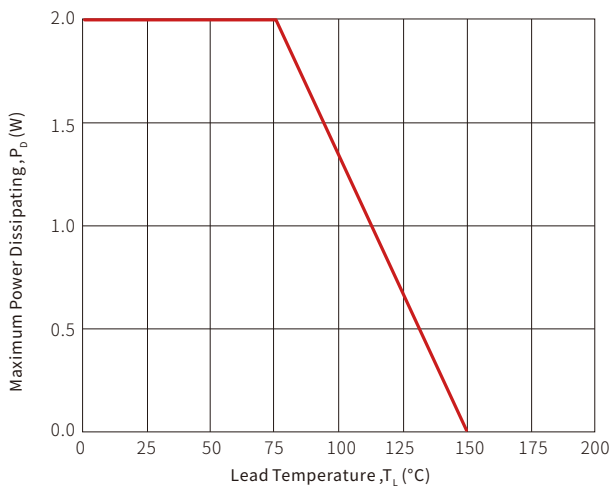


Fig.2-Temperature Coefficients v.s. Zener Voltage

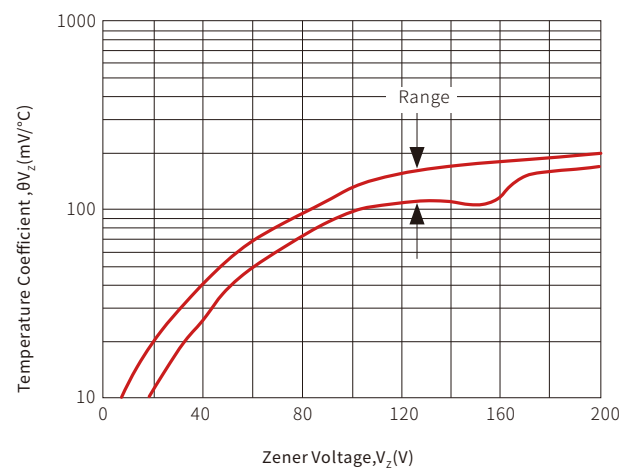
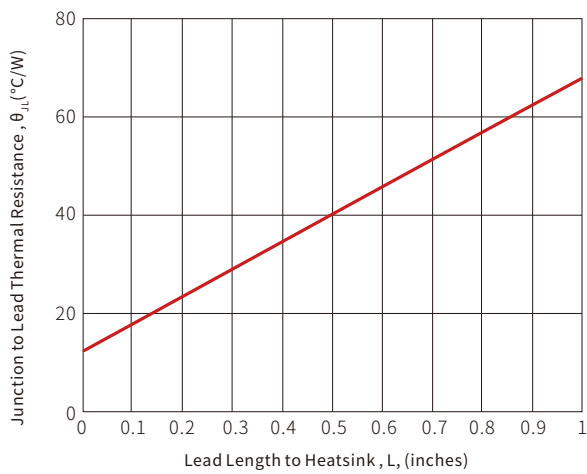
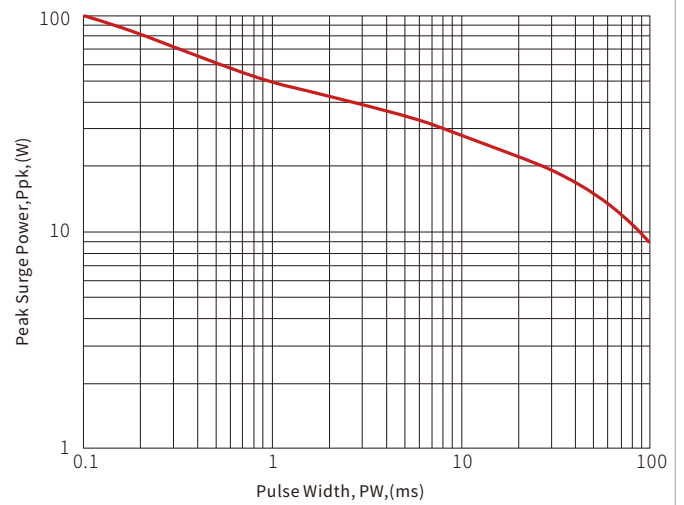
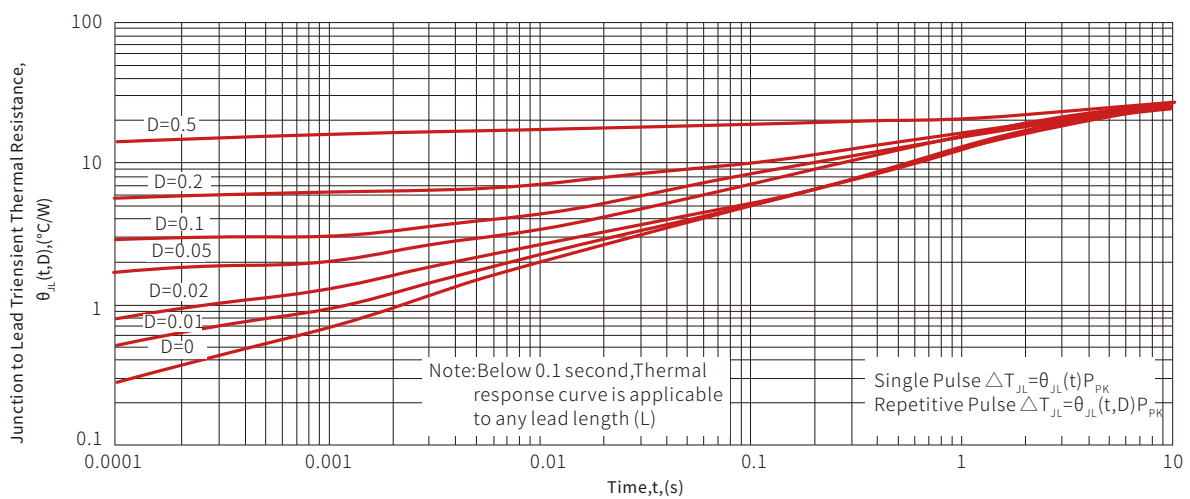
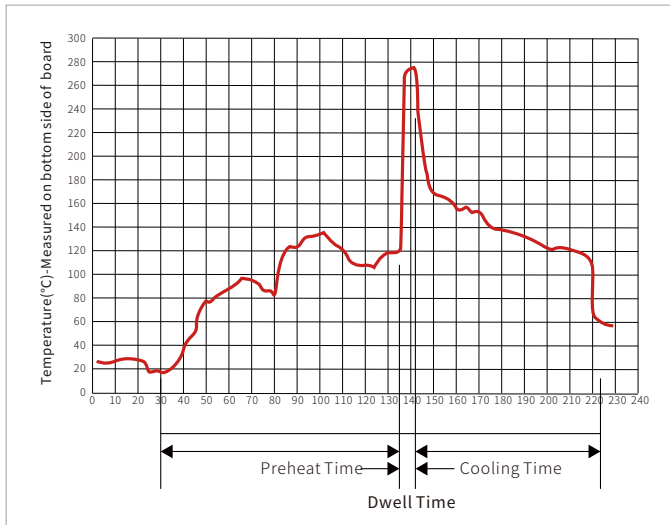


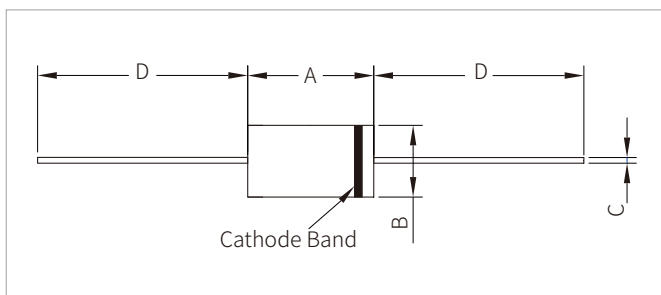
Fig.3-Typical thermal Resisttance v.s, Lead Length

Fig.4-Maximum Surge Power

Fig.5-Typical Thermal Response L , Lead Length=3/8inch


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

DO-15 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.70	0.90	0.026	0.034
D	25.40	-	1.000	-

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
2EZxxAD5	DO-15	3000pcs	Box

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Minhang Shanghai China
201000

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Ext: 8868
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By QR Code

Website



Wechat

To find your local partner within Semiware' s global website: www.semiware.com

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