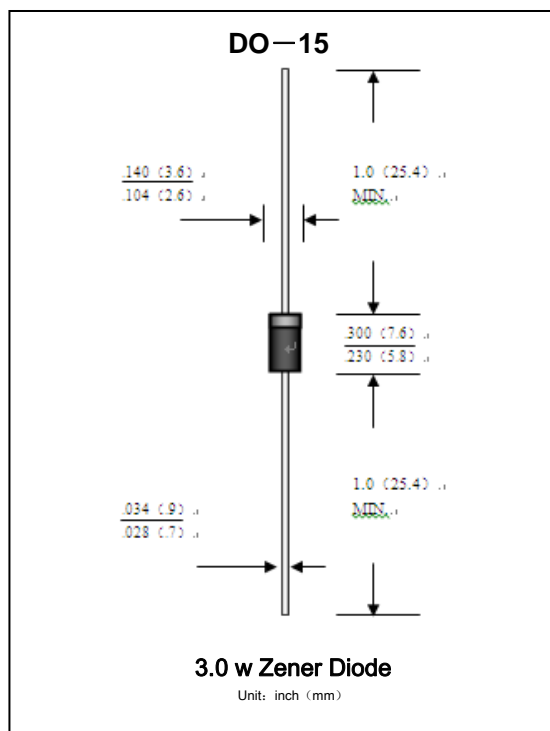


**■ Features**

- Low Zener Impedance under small current
- High Reliability
- Solder Resistance 250°C / 10S,  
0.375" (9.5mm) from the body

**■ Outline Dimensions****■ Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Limit	Unit
Zener Current	$I_Z$ MAX	See Table	mA
Power dissipation @TL=75°C ( Note 1 )	Pt	3.0	W
Forward voltage @IF = 200 mA	VF	1.5	V
Thermal Resistance (Between junction and ambient , Note1)	Rθ (ja)	20	°C/W
Junction temperature / Storage temperature range	TJ,TSTG	-55~+175	°C

Notes 1. Ta--Temp. of Lead at which 9.5mm from the body

**■ Electrical Characteristics (Ta=25°C Unless otherwise specified)**

Type (Note1)	Zener voltage $V_{Z@I_{ZT}}$	$I_{ZT}$	$Z_{ZT@I_{ZT}}$ ( Note2 )	$Z_{ZK@I_{ZK}}$ ( Note2 )	$I_{ZK}$	$I_{R@V_R}$	$@V_R$	$I_{ZM@50°C}$ ( Note3 )
	V	mA	Ω	Ω	mA	μA	@V <sub>R</sub>	mA
3EZ3.9D5	3.9	192	4.5	400	1.0	80	1.0	630
3EZ4.3D5	4.3	174	4.5	400	1.0	30	1.0	590
3EZ4.7D5	4.7	160	4.0	500	1.0	20	1.0	550
3EZ5.1D5	5.1	147	3.5	550	1.0	5.0	1.0	520
3EZ5.6D5	5.6	134	2.5	600	1.0	5.0	2.0	480
3EZ6.2D5	6.2	121	1.5	700	1.0	5.0	3.0	435
3EZ6.8D5	6.8	110	2.0	700	1.0	5.0	4.0	393
3EZ7.5D5	7.5	100	2.0	700	0.5	50	5.0	360
3EZ8.2D5	8.2	91	2.3	700	0.5	50	6.0	330
3EZ9.1D5	9.1	82	2.5	700	0.5	50	7.0	297
3EZ10D5	10	75	3.5	700	0.3	50	7.6	270



# 3EZ3.9D5 THRU 3EZ400D5

## ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

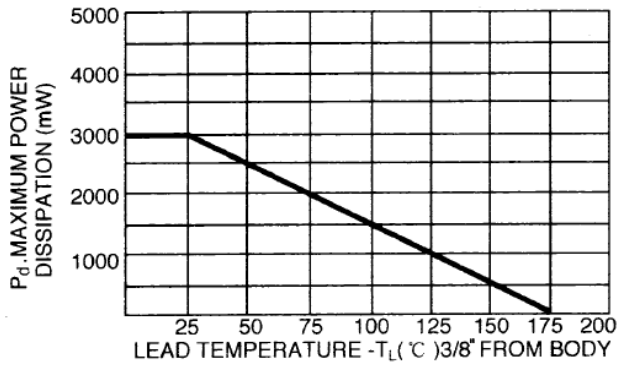
Type (Note1)	Zener voltage V <sub>Z@I<sub>ZT</sub></sub>	I <sub>ZT</sub>	Z <sub>ZT@I<sub>ZT</sub></sub> ( Note2 )	Z <sub>ZK@I<sub>ZK</sub></sub> ( Note2 )	I <sub>ZK</sub>	I <sub>R@V<sub>R</sub></sub>	@V <sub>R</sub>	I <sub>ZM@50°C</sub> ( Note3 )
	V	mA	Ω	Ω	mA	μA	@V <sub>R</sub>	mA
3EZ11D5	11	68	4.0	700	0.25	50	8.4	225
3EZ12D5	12	63	4.5	700	0.25	1.0	9.1	246
3EZ13D5	13	58	4.5	700	0.25	0.5	9.1	208
3EZ14D5	14	53	5.0	700	0.25	0.5	10.6	193
3EZ15D5	15	50	5.5	700	0.25	0.5	11.4	180
3EZ16D5	16	47	5.5	700	0.25	0.5	12.2	169
3EZ17D5	17	44	6.0	750	0.25	0.5	13.0	159
3EZ18D5	18	42	6.0	750	0.25	0.5	13.7	150
3EZ19D5	19	40	7.0	750	0.25	0.5	14.4	142
3EZ20D5	20	37	7.0	750	0.25	0.5	15.2	135
3EZ22D5	22	34	8.0	750	0.25	0.5	16.7	123
3EZ24D5	24	31	9.0	750	0.25	0.5	18.2	112
3EZ27D5	27	28	10	750	0.25	0.5	20.6	100
3EZ28D5	28	27	12	750	0.25	0.5	21.0	96
3EZ30D5	30	25	16	1000	0.25	0.5	22.5	90
3EZ33D5	33	23	20	1000	0.25	0.5	25.1	82
3EZ36D5	36	21	22	1000	0.25	0.5	27.4	75
3EZ39D5	39	19	28	1000	0.25	0.5	29.7	69
3EZ43D5	43	17	33	1500	0.25	0.5	32.7	63
3EZ47D5	47	16	38	1500	0.25	0.5	35.6	57
3EZ51D5	51	15	45	1500	0.25	0.5	38.8	53
3EZ56D5	56	13	50	2000	0.25	0.5	42.6	48
3EZ62D5	62	12	55	2000	0.25	0.5	47.1	44
3EZ68D5	68	11	70	2000	0.25	0.5	51.7	40
3EZ75D5	75	10	85	2000	0.25	0.5	56.0	36
3EZ82D5	82	9.1	95	3000	0.25	0.5	62.2	33
3EZ91D5	91	8.2	115	3000	0.25	0.5	69.2	30
3EZ100D5	100	7.5	160	3000	0.25	0.5	76.0	27
3EZ110D5	110	6.8	225	4000	0.25	0.5	83.6	25
3EZ120D5	120	6.3	300	4500	0.25	0.5	91.2	22
3EZ130D5	130	5.8	375	5000	0.25	0.5	98.8	21
3EZ140D5	140	5.3	475	5000	0.25	0.5	106.4	19
3EZ150D5	150	5.0	550	6000	0.25	0.5	114.0	18
3EZ160D5	160	4.7	625	6500	0.25	0.5	121.6	17
3EZ170D5	170	4.4	650	7000	0.25	0.5	130.4	16
3EZ180D5	180	4.2	700	7000	0.25	0.5	136.8	15
3EZ190D5	190	4.0	800	8000	0.25	0.5	144.8	14
3EZ200D5	200	3.7	875	8000	0.25	0.5	152.0	13
3EZ220D5	220	3.4	1600	9000	0.25	1	167.0	12
3EZ240D5	240	3.1	1700	9000	0.25	1	182.0	11
3EZ270D5	270	2.8	1800	9000	0.25	1	205.0	10
3EZ300D5	300	2.5	1900	9000	0.25	1	228.0	9
3EZ330D5	330	2.3	2200	9000	0.25	1	251.0	8
3EZ360D5	360	2.1	2700	9000	0.25	1	274.0	8
3EZ400D5	400	1.9	3500	9000	0.25	1	304.0	7



Notes :

1. The type number listed have a standard tolerance on the nominal zener voltage of  $\pm 5\%$  .
2. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (**IZT** or **IZK**) is superimposed to **IZT** or **IZK**.
3. The max zener current is not absolute , Please confirm that the product of the voltage and current should not exceed the rated power dissipation in actual zener application.

## ■ Characteristics(Typical)



**POWER DERATING CURVE**