

1EZ5.6D5~1EZ39D5

ZENER DIODES

VOLTAGE	5.6 to 39 Volt	POWER	1.0 Watt
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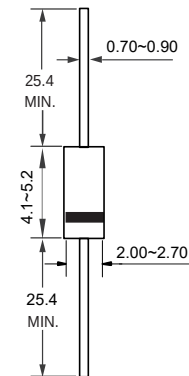
DO-41 Unit:mm

FEATURES

- Excellent clamping capability
- Glass Passivated Junction
- Low Profile Package
- Low Zener Impedance
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Forward Voltage @ $I_F = 200\text{mA}$	V_F	1.2	V
Power Dissipation	P_d	1.0	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	125	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~+150	°C

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ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	ZENER VOLTAGE @TEST CURRENT ^(1,2)		MAXIMUM ZENER IMPEDANCE			LEAKAGE CURRENT		$I_{ZM}^{(2)}$
	V_Z	I_{ZT}	Z_{ZT}	Z_{ZK}	I_{ZK}	I_R	V_R	
	V	mA	Ohms	Ohms	mA	μA	V	
1EZ5.6D5	5.6	44.6	5.0	600	1	10	2.0	162
1EZ6.2D5	6.2	40.3	2.0	700	1	10	3.0	146
1EZ6.8D5	6.8	36.8	3.5	700	1	10	4.0	133
1EZ7.5D5	7.5	33.3	4.0	700	0.5	10	5.0	121
1EZ8.2D5	8.2	30.5	4.5	700	0.5	10	6.0	110
1EZ9.1D5	9.1	27.5	5.0	700	0.5	10	7.0	100
1EZ10D5	10	25	7.0	700	0.25	10	7.6	91
1EZ11D5	11	22.7	8.0	700	0.25	5	8.4	83
1EZ12D5	12	20.8	9.0	700	0.25	5	9.1	76
1EZ13D5	13	19.2	10	700	0.25	5	9.9	69
1EZ14D5	14	17.9	12	700	0.25	5	10.6	65
1EZ15D5	15	16.7	14	700	0.25	5	11.4	61
1EZ16D5	16	15.6	16	700	0.25	5	12.2	57
1EZ17D5	17	14.7	18	750	0.25	5	13.0	53
1EZ18D5	18	13.9	20	750	0.25	5	13.7	50
1EZ19D5	19	13.2	21	750	0.25	5	14.4	47
1EZ20D5	20	12.5	22	750	0.25	5	15.2	45
1EZ22D5	22	11.4	23	750	0.25	5	16.7	41
1EZ24D5	24	10.4	25	750	0.25	5	18.2	38
1EZ27D5	27	9.3	35	750	0.25	5	20.6	34
1EZ30D5	30	8.3	40	1000	0.25	5	22.5	30
1EZ33D5	33	7.6	45	1000	0.25	5	25.1	27
1EZ36D5	36	6.9	50	1000	0.25	5	27.4	25
1EZ39D5	39	6.4	60	1000	0.25	5	29.7	23

- 1) Based on DC-measurement at thermal equilibrium while maintaining the lead temperature(T_L) at 25C
9.5mm (3/8") from the diode body.
- 2) Maximum rated zener current I_{ZM} measured at ambient temperature, $T_A=100C$

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RATING AND CHARACTERISTIC CURVES

Fig. 1 - POWER TEMPERATURE DERATING CURVE

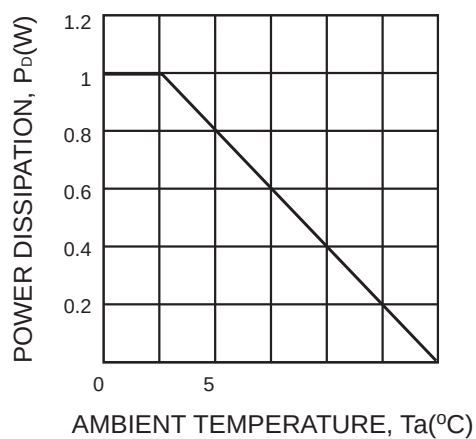
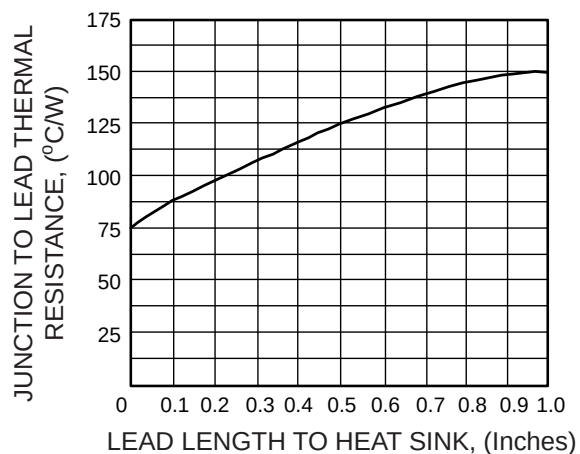


Fig. 2 - TYPICAL THERMAL RESISTANCE VERSUS LEAD LENGTH



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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1EZ5.6D5~1EZ39D5	D0-41	13 Inch	5000