

1EZ110D5~1EZ300D5

ZENER DIODES

VOLTAGE	110 to 300 Volt	POWER	1.0 Watt
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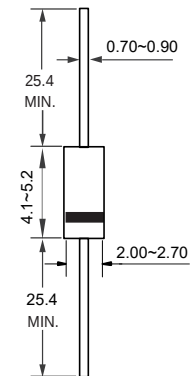
DO-41 Unit:mm

FEATURES

- Silicon Planar Power Zener Diodes
- 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

TYPE	Nominal Zener Voltage V _Z @I _{ZT}	Zener Test Current I _{ZT} mA	Maximum Zener Impedance		I _{ZK} mA	Maximum Reverse Leakage Current		Maximum Regulator Current I _{ZM} mA
			Z _{ZT} @I _{ZT} Ohms	Z _{ZK} @I _{ZK} Ohms		I _R uA	@V _R Volts	
1EZ110	110.0	2.3	450	4000	0.25	0.1	83.6	8.6
1EZ120	120.0	2.0	550	4500	0.25	0.1	91.2	7.8
1EZ130	130.0	1.9	700	5000	0.25	0.1	98.8	7.0
1EZ150	150.0	1.7	1000	6000	0.25	0.1	114.0	6.4
1EZ160	160.0	1.6	1100	6500	0.25	0.1	121.6	5.8
1EZ180	180.0	1.4	1200	7000	0.25	0.1	136.8	5.2
1EZ200	200.0	1.2	1900	9990	0.25	0.1	152.0	4.7
1EZ220	220.0	1.0	1600	8000	0.25	0.1	167.2	4.0
1EZ240	240.0	0.9	1800	8500	0.25	0.1	182.4	3.8
1EZ250	250.0	0.9	2000	9000	0.25	0.1	190.0	3.6
1EZ270	270.0	0.8	2100	9000	0.25	0.1	205.0	3.3
1EZ300	300.0	0.8	2300	9500	0.25	0.1	228.0	3.0

NOTE: Standard Zener Voltage Tolerance $\pm 5\%$

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RATING AND CHARACTERISTIC CURVES

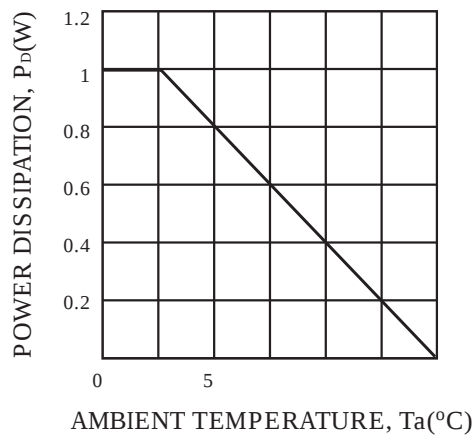


Fig. 1 - POWER TEMPERATURE DERATING CURVE

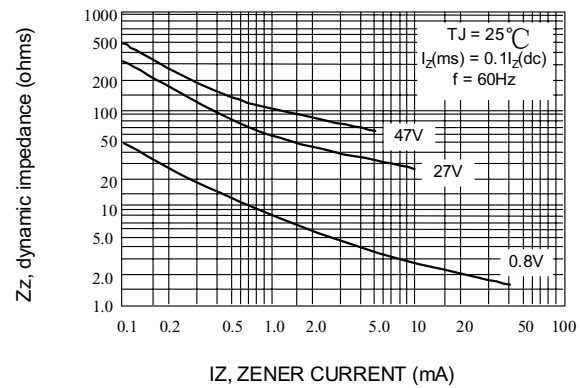


Fig. 2-EFFECT OF ZENER CURRENT ON ZENER IMPEDANCE

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1EZ110D5~1EZ300D5	D0-41	13 Inch	5000