

3EZ220D10 ~ 3EZ400D10

SILICON ZENER DIODES

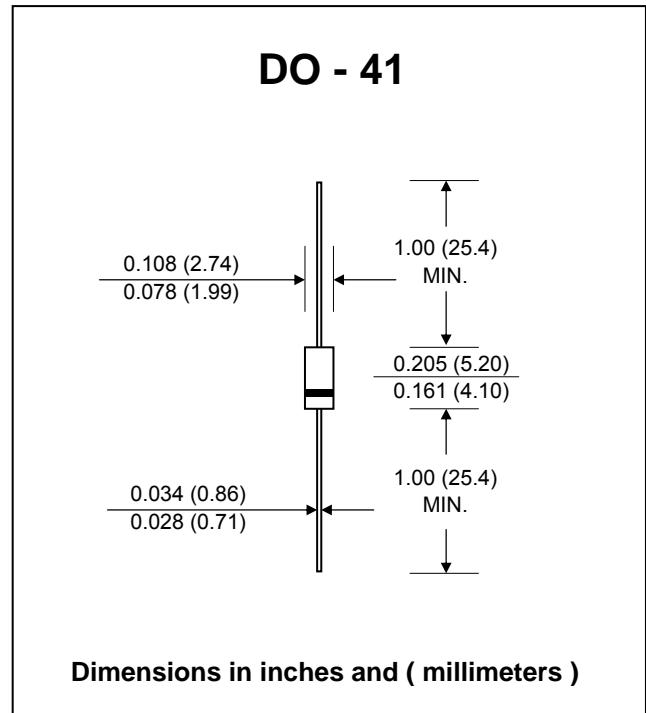
V_Z : 220 - 400 Volts
P_D : 3 Watts

FEATURES :

- * Complete Voltage Range 220 to 400 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * **Pb / RoHS Free**

MECHANICAL DATA

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.339 gram



MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 75 °C (Note1)	P _D	3.0	W
Maximum Forward Voltage at I _F = 200 mA	V _F	2.0	V
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R _{θJA}	60	K / W
Junction Temperature Range	T _J	- 55 to + 175	°C
Storage Temperature Range	T _{STG}	- 55 to + 175	°C

Notes :

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	I_{ZM}	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μ A)		
3EZ220D5	220	3.4	1600	9000	0.25	1.0	167.0	12
3EZ240D5	240	3.1	1700	9000	0.25	1.0	182.0	11
3EZ270D5	270	2.8	1800	9000	0.25	1.0	205.0	10
3EZ300D5	300	2.5	1900	9000	0.25	1.0	228.0	9
3EZ330D5	330	2.3	2200	9000	0.25	1.0	251.0	8
3EZ360D5	360	2.1	2700	9000	0.25	1.0	274.0	8
3EZ400D5	400	1.9	3500	9000	0.25	1.0	304.0	7

Notes :

- (1) Suffix " 10 " indicates $\pm 10\%$ tolerance, suffix " 5 " indicates $\pm 5\%$ tolerance.
- (2) " EZ " will be omitted in marking on the diode

Fig. 1 Power Temperature Derating Curve

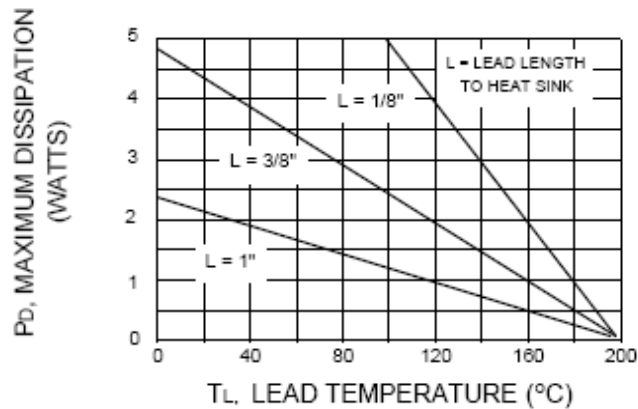


Fig. 2 Maximum Surge Power

