

Z5230B - Z5250B

ZENER DIODES

V_Z : 230 - 250 Volts

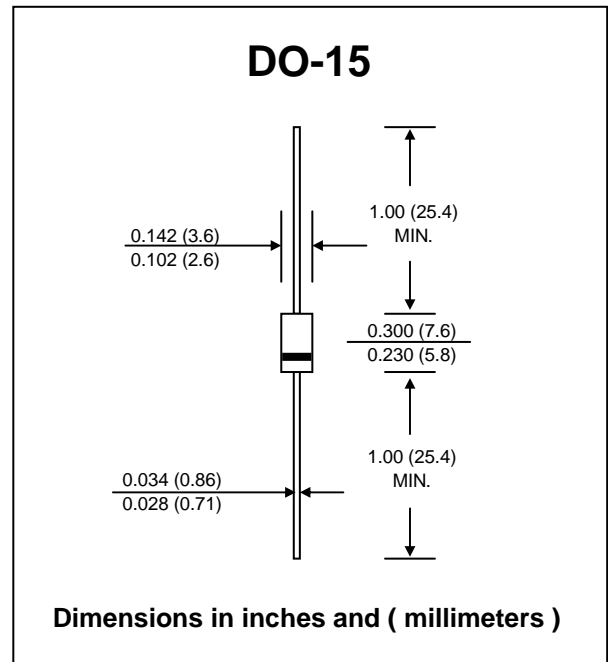
P_D : 5 Watts

FEATURES :

- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Standard zener voltage tolerance is ± 5%.
- * **Pb / RoHS Free**

MECHANICAL DATA

- * Case : DO-15 Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208.
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.40 gram



MAXIMUM RATINGS (Rating at 25 °C ambient temperature unless otherwise specified)

Rating	Symbol	Value	Unit
Power Dissipation at T _L = 75°C ⁽¹⁾	P _D	5.0	W
Maximum Forward Voltage at I _F = 1A	V _F	2.0	V
Junction Temperature Range	T _J	- 65 to + 200	°C
Storage Temperature Range	T _{STG}	- 65 to + 200	°C

ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

Type No.	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)	(μA)	(V)	(mA)
Z5230B	230	5.0	600	2500	1.0	0.5	176	21.0
Z5250B	250	5.0	650	2900	1.0	0.5	192	19.0

Note :

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

RATING AND CHARACTERISTIC CURVES (Z5230B - Z5250B)

Fig 1. Typical Thermal Response L, Lead Length = 3/8 Inch

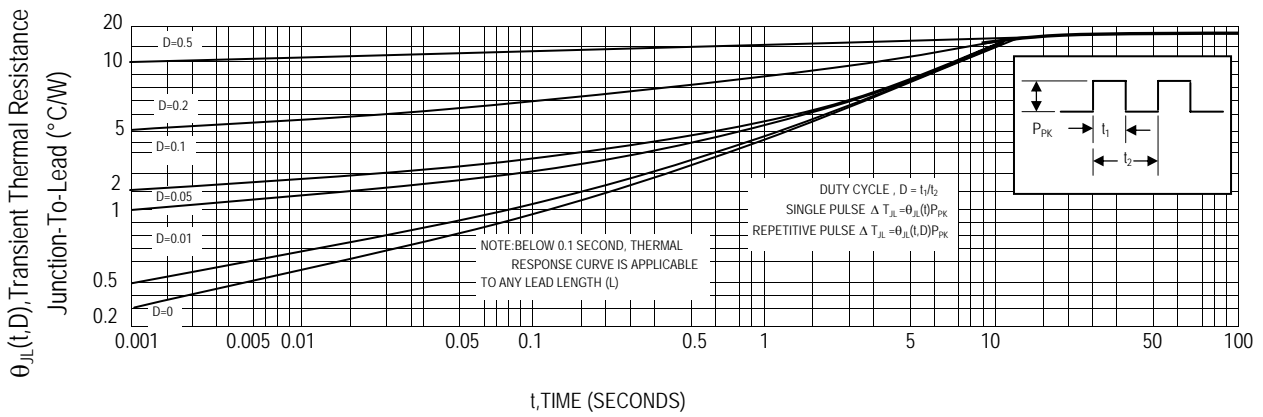


Fig.2 Maximum Non-Repetitive Surg Current versus Nominal Zener Voltage

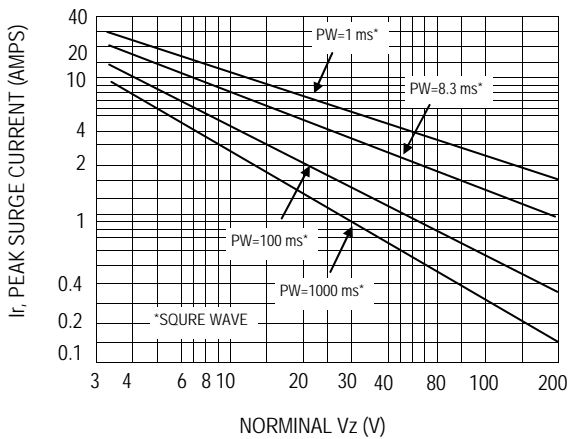


Fig. 3 Power Temperature Derating Curve

