

REFERENCE DIODE 1SZ50 ~ 1SZ53

NEC Type 1SZ50 ~ 1SZ53 are DHD (Double Heatsink Diode) construction planar type high stability reference diodes.

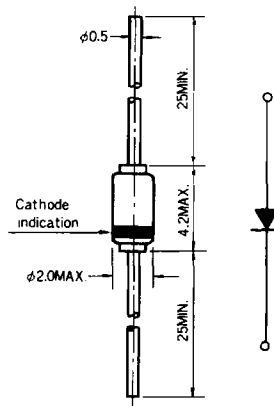
FEATURES

- DHD (Double Heatsink Diode) Construction
- Planar process
- High Stability and High Reliability
- DO-35 Glass sealed package

APPLICATIONS

Circuits for,
Constant Voltage, Constant Current

OUTLINE DRAWING (Unit : mm)



MAXIMUM RATINGS

Power Dissipation (P) 250mW (See Fig. 1)
Junction Temperature (T_j) 175°C
Storage Temperature (T_{stg}) -65 ~ +175°C

Color Code

Black	Red	Green	Blue
1SZ50	1SZ51	1SZ52	1SZ53

ELECTRICAL CHARACTERISTICS ($T_a = 25 \pm 2^\circ\text{C}$)

Type	Zener Voltage V_z (V)		Zener Impedance Z_z (Ω)	Zener Current I_z (mA)	V_z Temperature Coefficient γ_z (%/°C)	Temperature Range T_a (°C)
	Min.	Max.	Max.		Max.	
1SZ50	5.9	6.5	15	7.5	± 0.01	-25 ~ 75
1SZ51					± 0.005	
1SZ52					± 0.002	
1SZ53					± 0.001	0 ~ 75

Fig. 1 P - T_a Rating

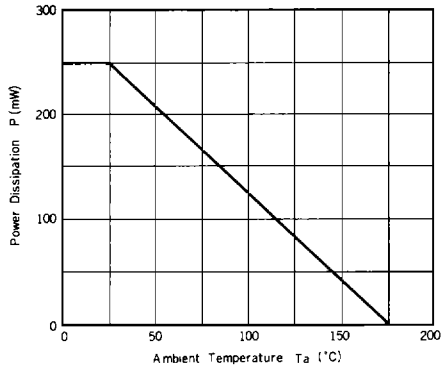


Fig. 2 $\gamma_z - V_z$ Characteristic

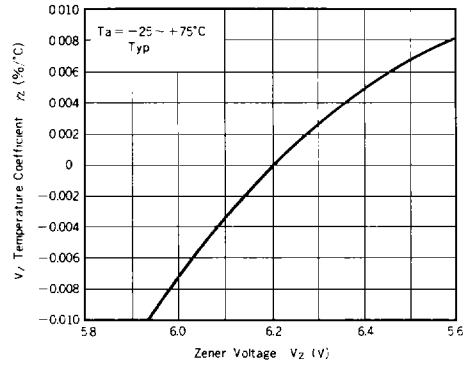


Fig. 3 $\gamma_z - I_z$ Characteristic

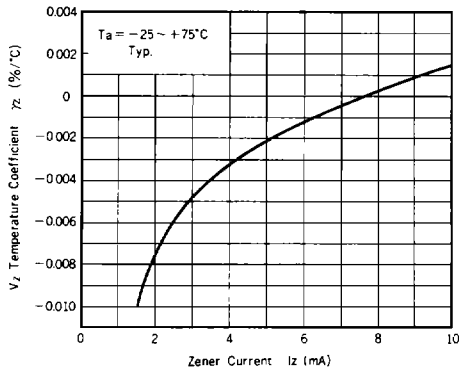


Fig. 4 Z_z - I_z Characteristic

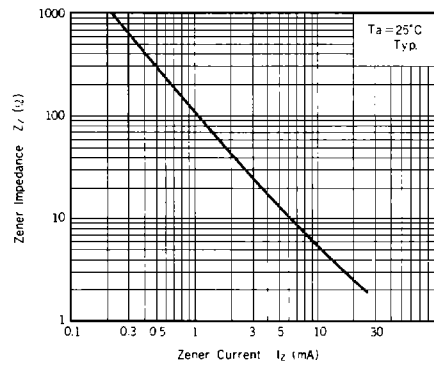


Fig. 5 $\Delta V_z - I_z$ Characteristic

