

# REFERENCE DIODE 1SZ50 ~ 1SZ53

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

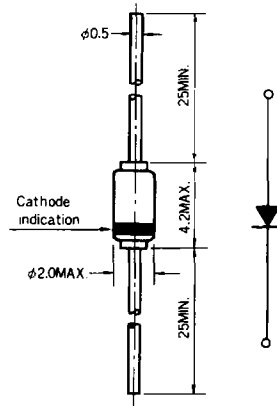
**FEATURES**

- 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 $Z_z$ ( $\Omega$ )	Zener Current $I_z$ (mA)	$V_z$ Temperature Coefficient $\gamma_z$ (%/°C)	Temperature Range $T_a$ (°C)
	Min.	Max.	Max.		Max.	
1SZ50	5.9	6.5	15	7.5	$\pm 0.01$	-25 ~ 75
1SZ51					$\pm 0.005$	
1SZ52					$\pm 0.002$	
1SZ53					$\pm 0.001$	

Fig. 1 P - Ta Rating

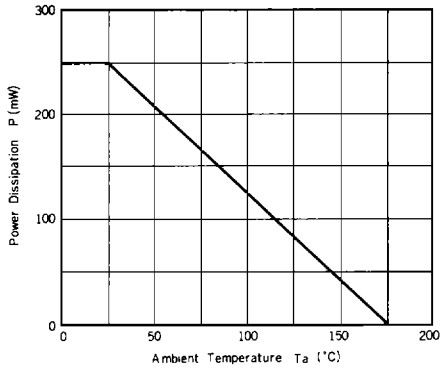


Fig. 2  $\gamma_z - V_z$  Characteristic

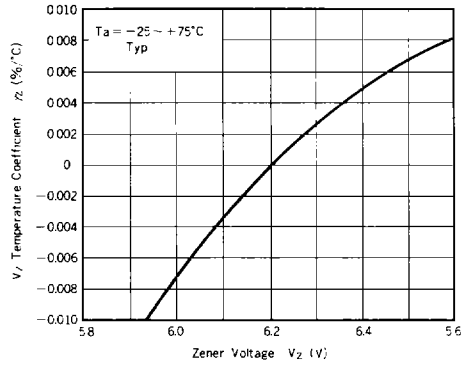


Fig. 3  $\gamma_z - I_z$  Characteristic

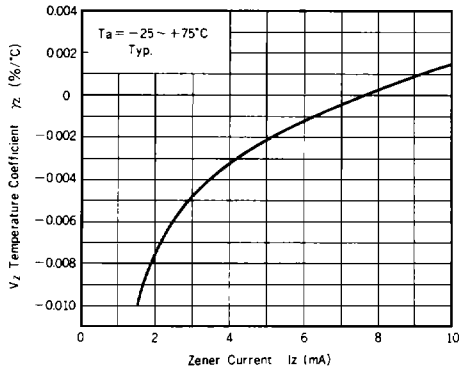


Fig. 4 Zz - Iz Characteristic

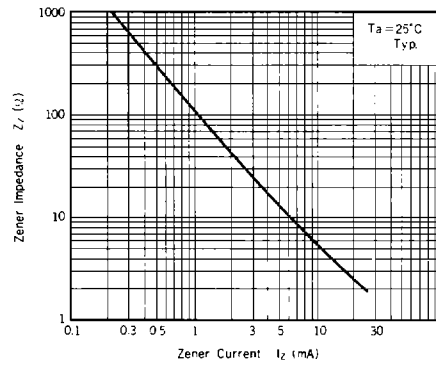


Fig. 5  $\Delta V_z - I_z$  Characteristic

