

REFERENCE DIODE **1SZ45A ~ 1SZ48**

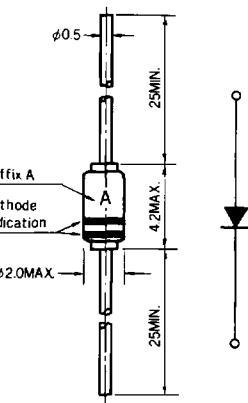
NEC Type 1SZ45A ~ 1SZ48 are DHD (Double Heatsink Diode) construction planar type high stability reference diodes.

FEATURES

- DHD (Double Heatsink Diode) Construction
- Planar process
- High Stability and High Reliability
- Low zener current ($I_z = 1\text{mA}$)
- DO-35 Glass sealed package

APPLICATIONS Circuits for,
Constant Voltage, Constant Current

OUTLINE DRAWING (Unit : mm)



Color Code

Black	Red	Green	Blue
1SZ45A	1SZ46A	1SZ47A	—
—	—	1SZ47	1SZ48

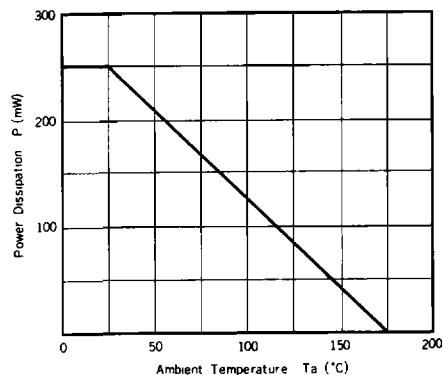
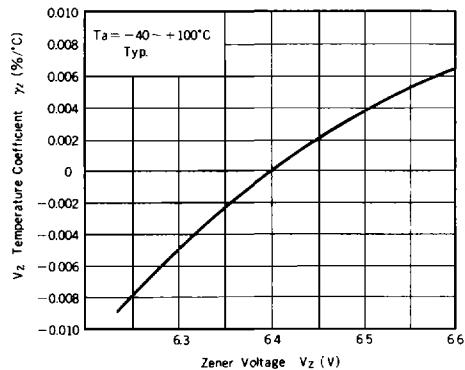
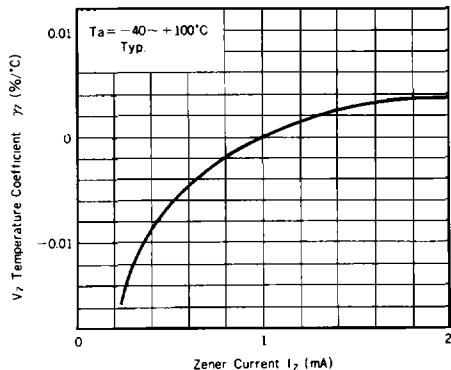
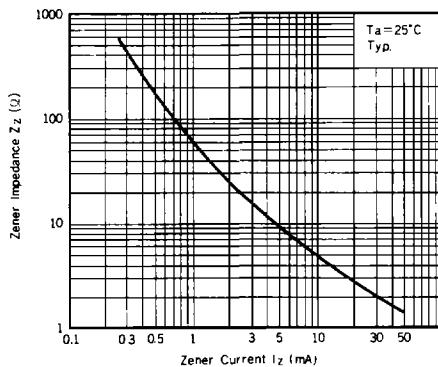
MAXIMUM RATINGS

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

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

Type	Zener Voltage V_z (V)		Zener Impedance Z_z (Ω)	I_z (mA)	V _z Temperature Coefficient γ_z (%/ $^\circ\text{C}$)	Temperature Range T_a ($^\circ\text{C}$)
	Min.	Max.			Max.	
1SZ45A					±0.01	
1SZ46A					±0.005	-40 ~ 100
1SZ47A	6.1	6.7	100	1	±0.002	
1SZ47					±0.002	-10 ~ 60
1SZ48					±0.001	

Fig. 1 P-Ta Rating

Fig. 2 $\gamma_z - V_z$ CharacteristicFig. 3 $\gamma_z - I_z$ CharacteristicFig. 4 $Z_z - I_z$ CharacteristicFig. 5 $\Delta V_z - I_z$ Characteristic