HZT33
Monolithic IC Zener Diode for Temperature Compensation

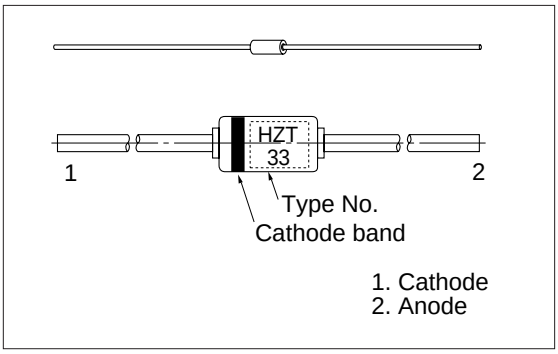
HITACHI

Rev. 1
Apr. 1995

Features

- Lower temperature coefficient of the reference voltage.
  (γ_Z = ±1 mV/°Cmax)
- Lower dynamic resistance.

Outline



Ordering Information

Type No.	Mark	Package Code
HZT33	Type No.	DO-35

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	P_d	200	mW
Operation temperature	T_{opr}	-20 to + 75	°C
Storage temperature	T_{stg}	-40 to +175	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener voltage	V_Z	31.0	—	35.0	V	I_Z = 5 mA
Dynamic resistance	r_d	—	—	25.0	Ω	I_Z = 5 mA
Temperature coefficient	γz	—	—	±1.0	mV/°C	I_Z = 5 mA Ta = -20 to 25 to 75°C

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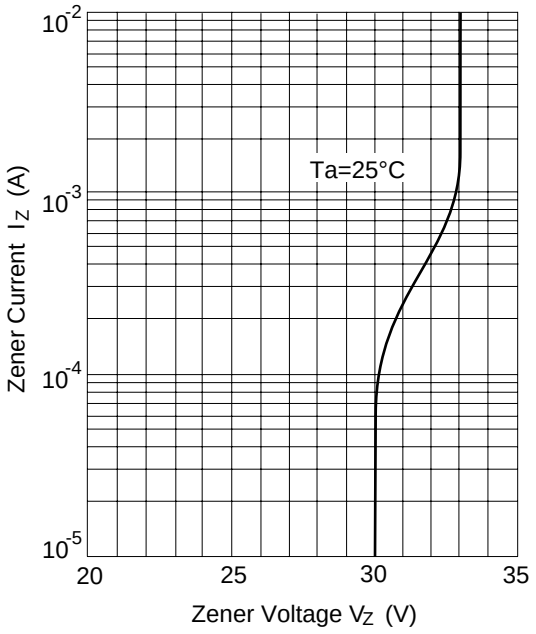


Fig.1 Zener current Vs. Zener voltage

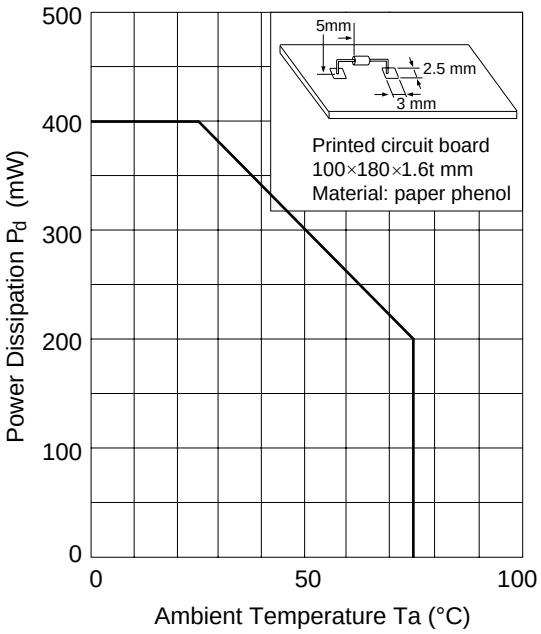
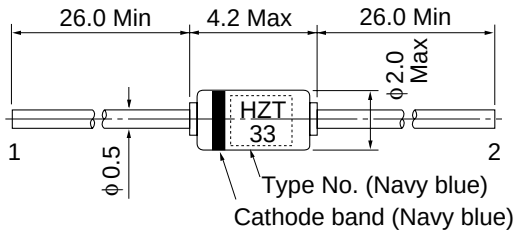
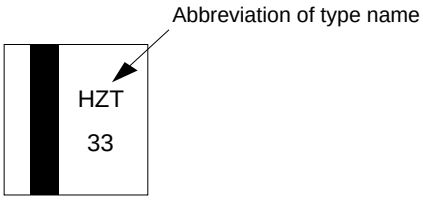


Fig.2 Power Dissipation Vs. Ambient Temperature

Package Dimensions

Unit: mm





Expanded drawing of marking

1 Cathode
2 Anode

HITACHI Code	DO-35
JEDEC Code	DO-35
EIAJ Code	SC-48
Weight (g)	0.13