

HJT33

Monolithic IC Zener Diode for Temperature Compensation

HITACHI

ADE-208-135B(Z)

Rev 2

Nov. 1999

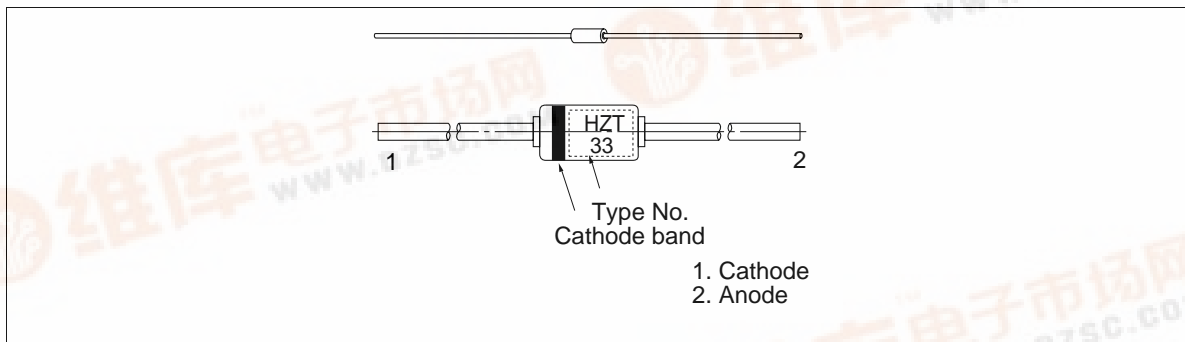
Features

- Lower temperature coefficient of the reference voltage. ($\gamma_z = \pm 1 \text{ mV/}^\circ\text{C typ}$)
- Lower dynamic resistance.

Ordering Information

Type No.	Mark	Package Code
HJT33	Type No.	DO-35

Outline



HZT33

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd *1	200	mW
Operation temperature	Topr	-20 to +75	°C
Storage temperature	Tstg	-40 to +175	°C

Note: 1. Value at Ta = 75°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 = 5mA
Dynamic resistance	r _d	—	—	25.0	Ω	I _z = 5mA
Temperature coefficient	γ _z	—	1*1	—	mV/°C	I _z = 5mA Ta = -20 to 25 to 75°C

Note: 1. Absolute Value

Main Characteristic

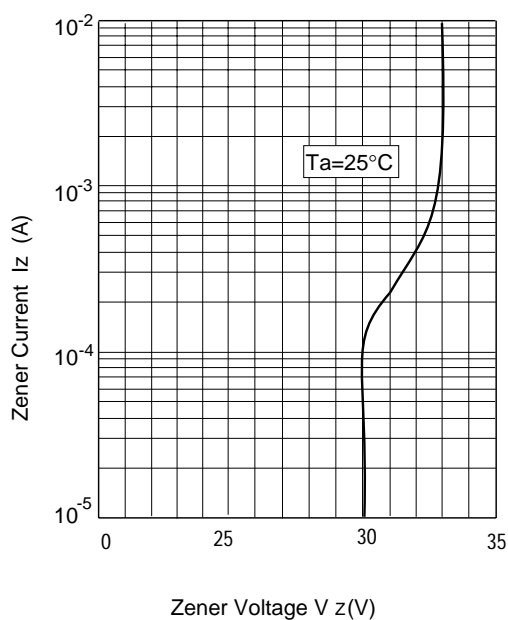


Fig.1 Zener Current Vs. Zener voltage

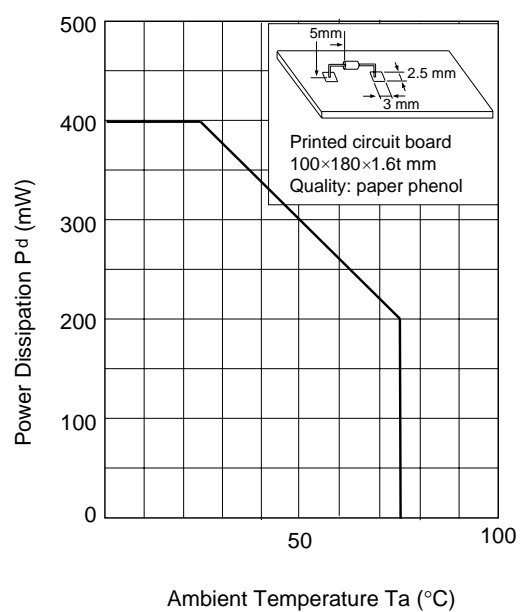
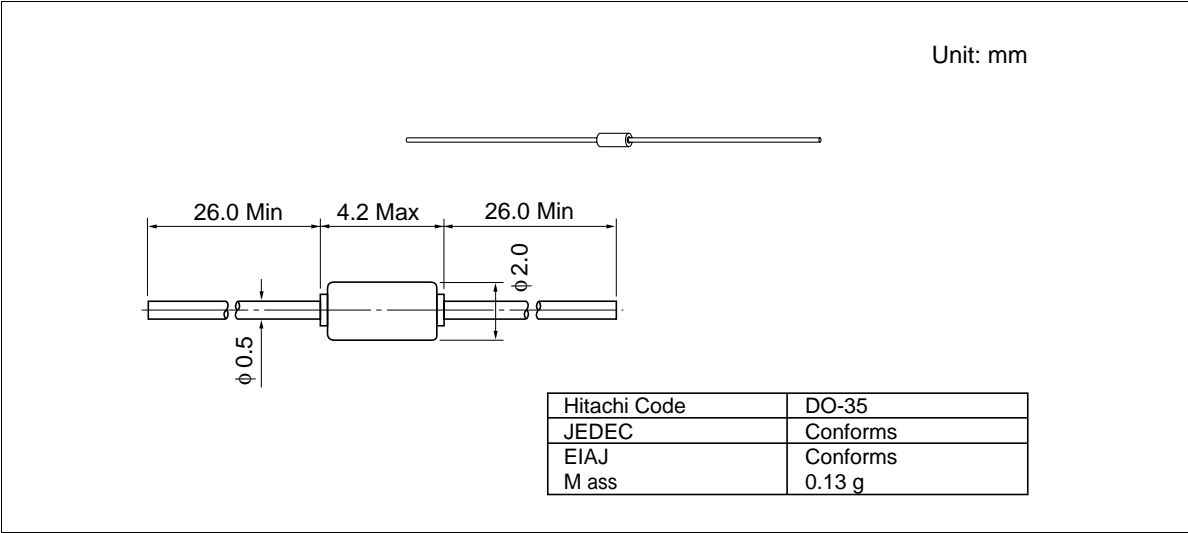


Fig.2 Power Dissipation Vs. Ambient Temperature

HZT33

Package Dimensions



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