

# HZT33

## Monolithic IC Zener Diode for Temperature Compensation

REJ03G1220-0500  
(Previous: ADE-208-135D)  
Rev.5.00  
Jun 23, 2005

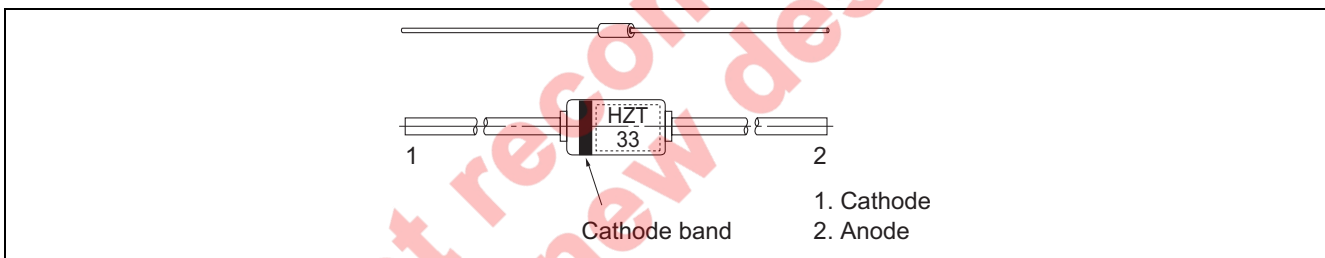
### Features

- Lower temperature coefficient of the reference voltage.
- Lower dynamic resistance.
- High reliability with glass seal.

### Ordering Information

Type No.	Cathode band	Mark	Package Name	Package Code (Previous Code)
HZT33	Navy Blue	HZT33	DO-35	GRZZ0002ZB-A (DO-35)

### Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

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

Note: Value at Ta = 75°C.

## Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener Voltage	Vz	31.0	—	35.0	V	Iz = 5 mA
Dynamic resistance	rd	—	—	25.0	Ω	Iz = 5 mA, f = 1 KHz
Temperature coefficient	γz	—	1.0 * <sup>1</sup>	—	mV/°C	* <sup>2</sup> Iz = 5 mA Ta = -20 to +25 to +75°C

Notes: 1. Type Value of γz : 1.0 mV/°C

2. Definition of γz

γz based on Ta = + 25°C and the temperature coefficient with each temperature.  
(Range of operation temperature)

Not recommended  
for new design

Main Characteristic

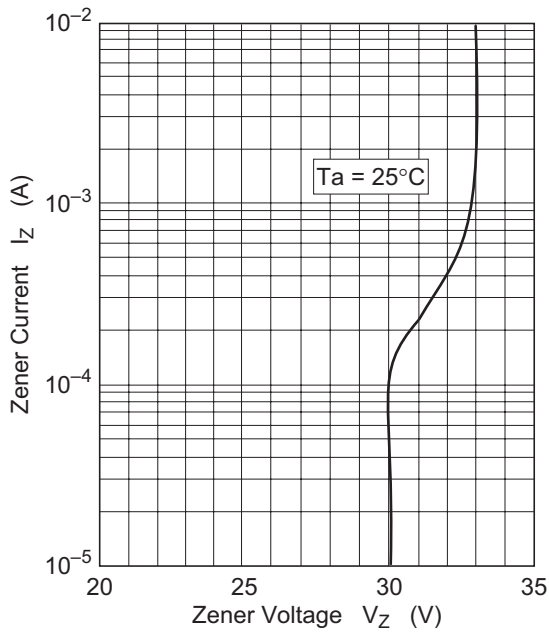


Fig.1 Zener current vs. Zener voltage

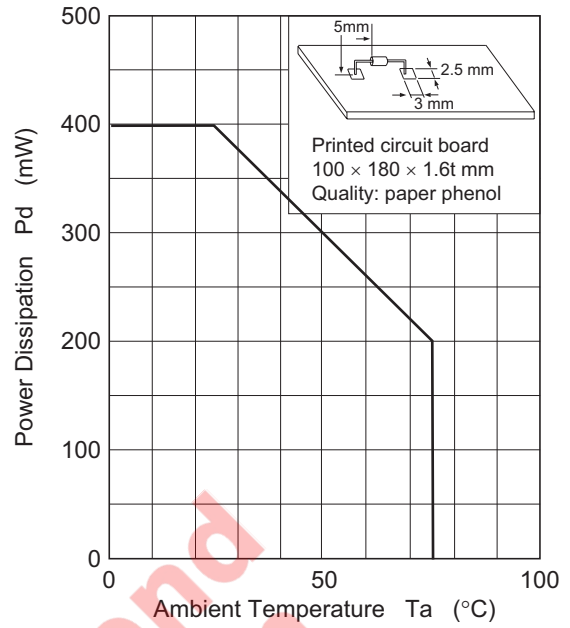
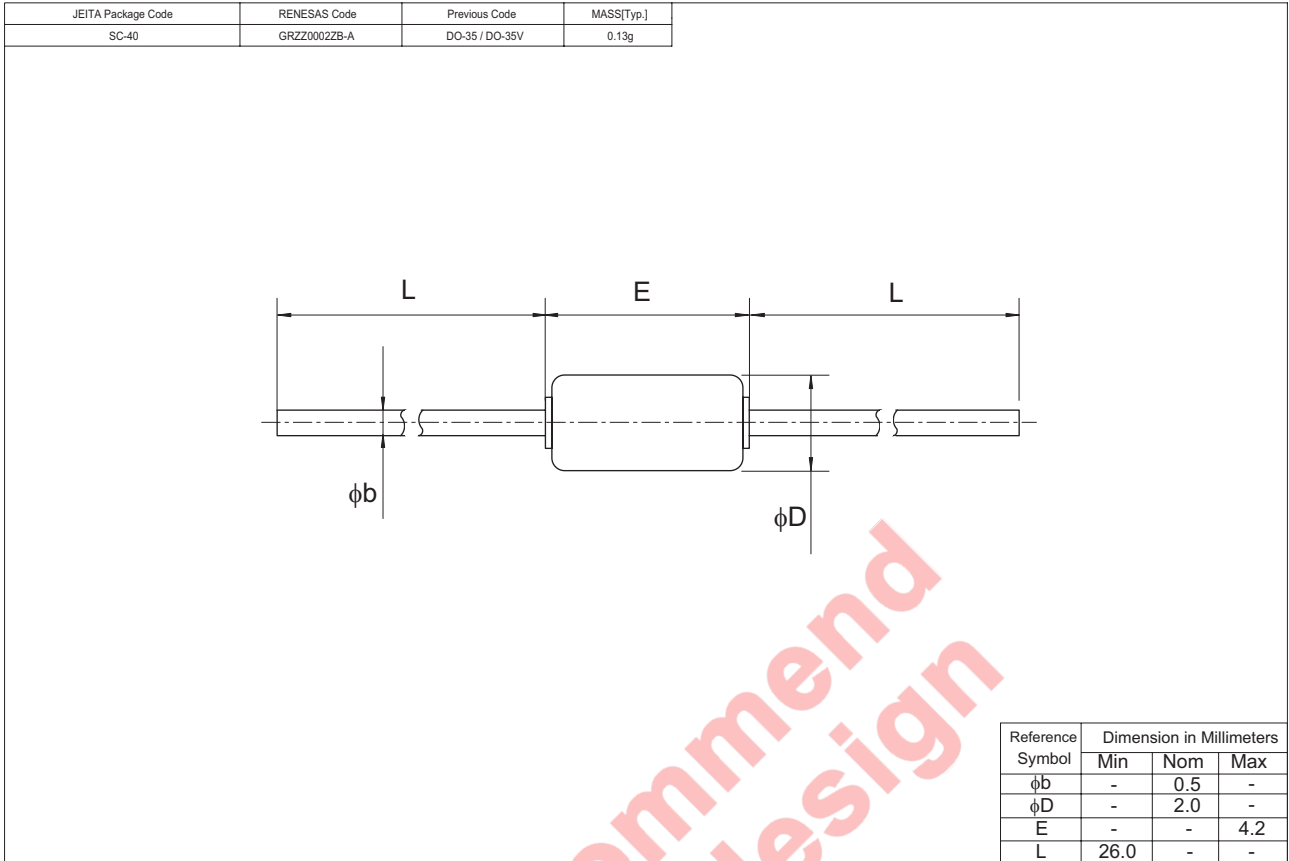


Fig.2 Power Dissipation vs. Ambient Temperature

Not recommended for new design

Package Dimensions



Not recommend for new design

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