
HZT7

Monolithic IC Zener Diode for Temperature Compensation

HITACHI

ADE-208-131A (Z)

Rev. 1

Apr. 1995

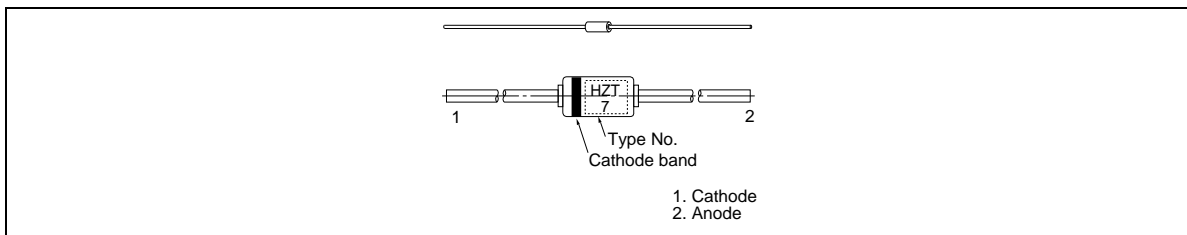
Features

- Lower temperature coefficient of the reference voltage.
($\gamma_z = \pm 0.002$ to ± 0.01 %/°Cmax)

Ordering Information

Type No.	Mark	Package Code
HZT7	Type No.	DO-35

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd	200	mW
Operation temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-40 to +175	°C

HZT7

Electrical Characteristics (Ta = 25°C)

Type	Zener Voltage			Dynamic Resistance		Temperature Coefficient		
	V _z (V)		Test Condition	r _d (½)	Test Condition	γ _z (%/°C)	Test Condition	
	Min	Max	I _z (mA)	Max	I _z (mA)	Max	I _z (mA)	Ta (°C)
HZT7A1	6.5	7.0	10	20	10	±0.01	10	-40 to 25 to 85
HZT7A2						±0.005		
HZT7A3						±0.002		
HZT7B1	6.5	7.0	5	25	5	±0.01	5	-40 to 25 to 85
HZT7B2						±0.005		
HZT7B3						±0.002		
HZT7C1	6.5	7.0	1	100	1	±0.01	1	-40 to 25 to 85
HZT7C2						±0.005		

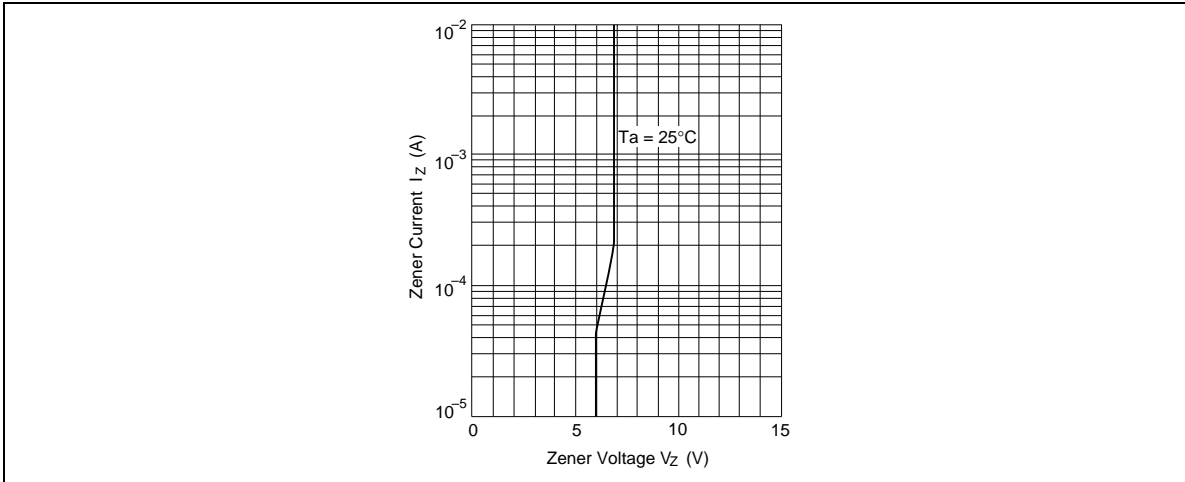


Fig.1 Zener current Vs. Zener voltage

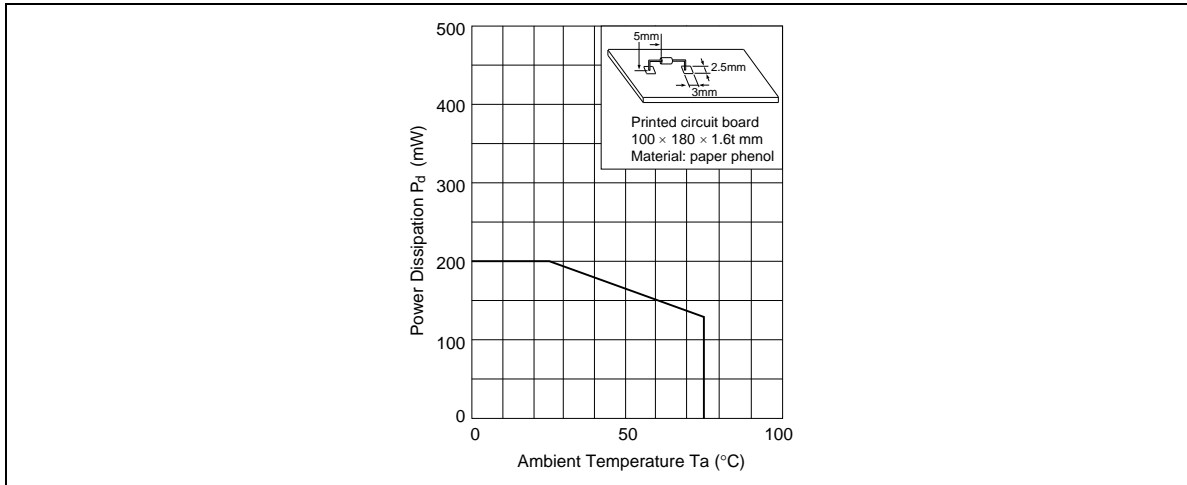


Fig.2 Power Dissipation Vs. Ambient Temperature

Package Dimensions

