

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09381 D T-11-07

1SZ57~1SZ59

Silicon Planar Type

Temperature Compensated Zener Diode

INDUSTRIAL APPLICATIONS

Unit in mm

VOLTAGE REGULATION AND VOLTAGE STANDARD APPLICATIONS.

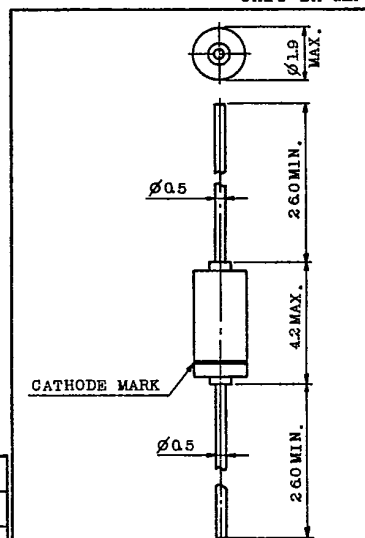
FEATURES:

- Low Temperature Coefficient of Zener Voltage
: $|r_z| = 0.002\%/^{\circ}\text{C}$ (Max.) (1SZ59)
- Low Zener Impedance : $r_d = 5\Omega$ (Typ.)
- Stable and High Reliability.

MAXIMUM RATINGS ($T_a = 25^{\circ}\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P	250	mW
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-65 ~ 175	$^{\circ}\text{C}$
Operating Temperature Range	T_{opr}	-25 ~ 75	$^{\circ}\text{C}$

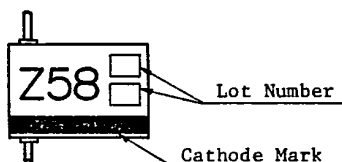
Note 1 : Marking



JEDEC	DO-35
EIAJ	S -40
TOSHIBA	1-2A1A

Weight : 0.14g

Example : 1SZ58

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

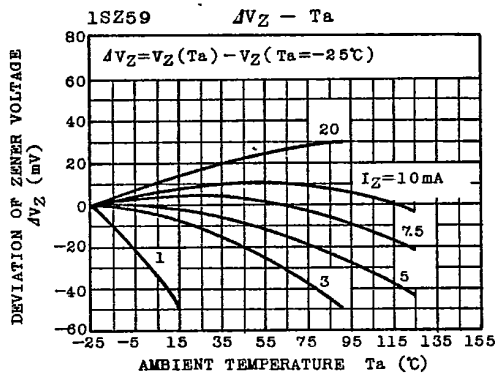
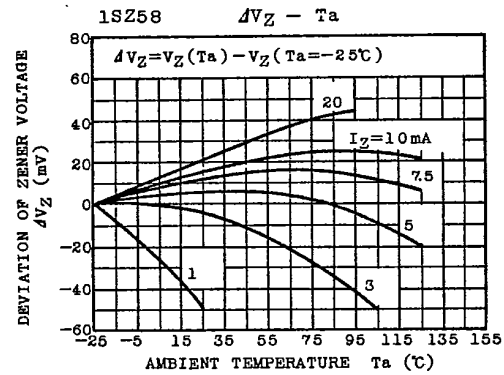
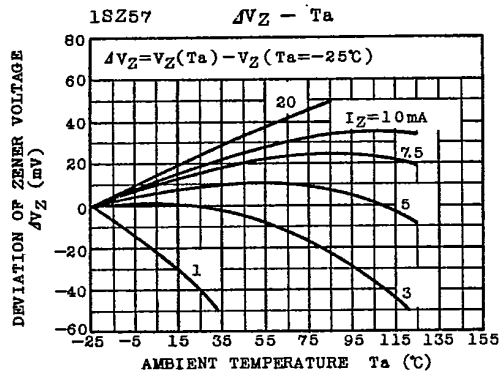
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage	V_Z	$I_Z = 10\text{mA}$	6.0	6.5	7.0	V
Reverse Current	I_R	$V_R = 3\text{V}$	-	-	1.0	μA
Zener Impedance	r_d	$I_Z = 10\text{mA}$, $f = 1\text{kHz}$	-	5	15	Ω
Temperature Coefficient of Zener Voltage	1SZ57	$ r_z $ $I_Z = 10\text{mA}$, $T_a = -25 \sim 75^{\circ}\text{C}$	-	-	0.01	$\%/^{\circ}\text{C}$
	1SZ58		-	-	0.005	
	1SZ59		-	-	0.002	

TOSHIBA CORPORATION

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