

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09381 D T-11-07

# 1SZ57~1SZ59

Silicon Planar Type

Temperature Compensated Zener Diode

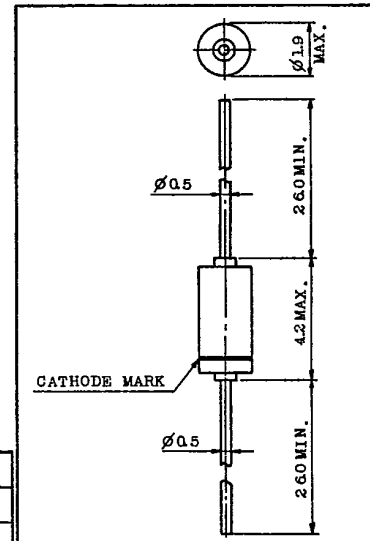
INDUSTRIAL APPLICATIONS

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

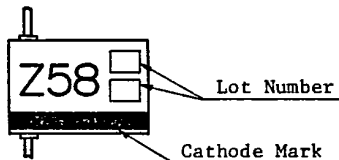
CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P	250	mW
Junction Temperature	$T_j$	175	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-65 ~ 175	$^{\circ}\text{C}$
Operating Temperature Range	$T_{opr}$	-25 ~ 75	$^{\circ}\text{C}$

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

Note 1 : Marking

Weight : 0.14g

Example : 1SZ58



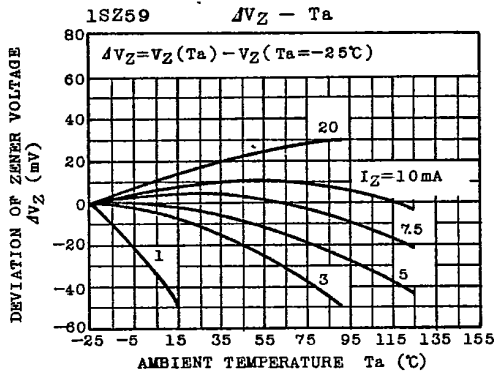
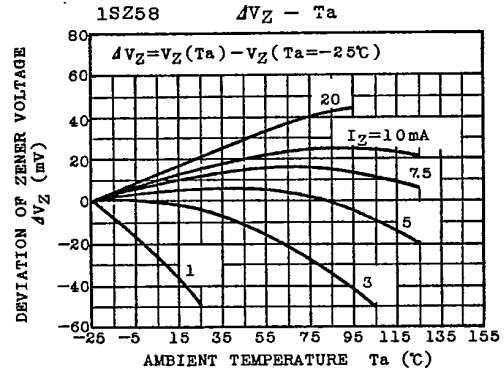
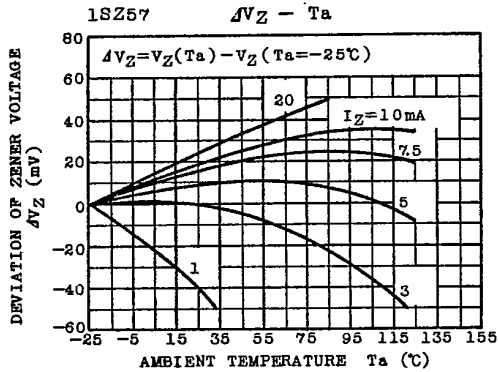
ELECTRICAL CHARACTERISTICS ( $T_a = 25^{\circ}\text{C}$ )

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	$\mu\text{A}$	
Zener Impedance	$r_d$	$I_Z = 10\text{mA}, f = 1\text{kHz}$	-	5	15	$\Omega$	
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	

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TOSHIBA CORPORATION

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