

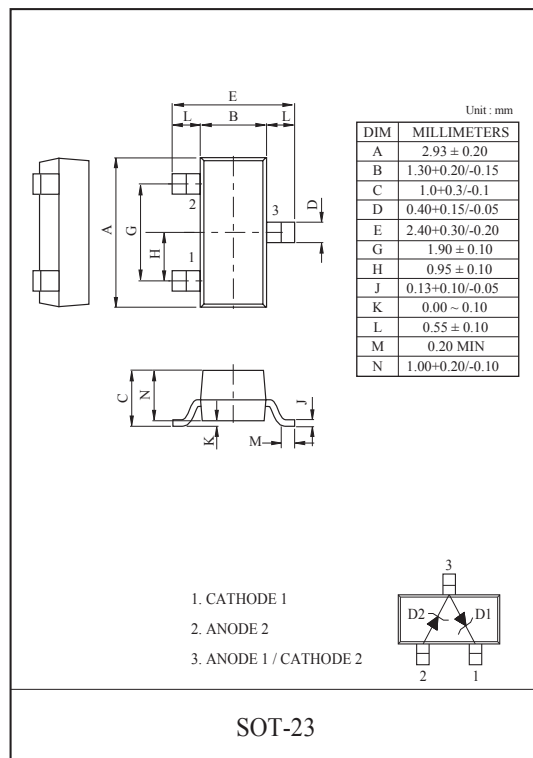
CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.
WAVE FORM CLIPPER

FEATURES

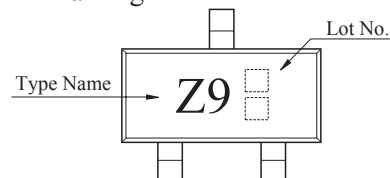
- Small Package : SOT-23
- Sharp breakdown characteristic.
- Series type PIN connection
- Suffix U : Qualified to AEC-Q101.
ex) Z02W9.1VS-RTK/HU

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



Marking



ELECTRICAL CHARACTERISTICS (Ta=25°C)

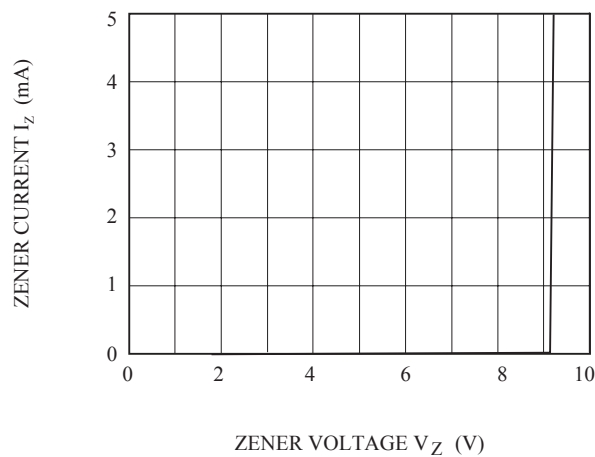
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage (Note1)	V_Z	$I_Z=5mA$	8.80	-	9.30	V
Dynamic Impedance (Note2)	Z_Z	$I_Z=5mA$	-	-	18	Ω
Reverse Current	I_R	$V_R=7V$	-	-	0.5	μA

(Note 1) V_Z is tested with pulsed (40ms), Single Zener Diode Voltage.

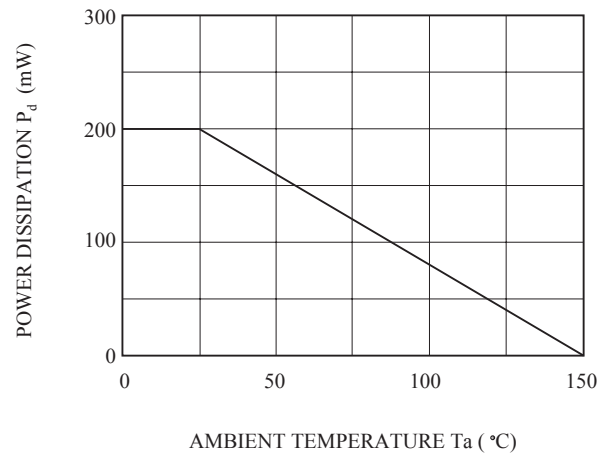
(Note 2) V_Z is measured at I_Z by given a very small A.C current signal.

Z02W9.1VS

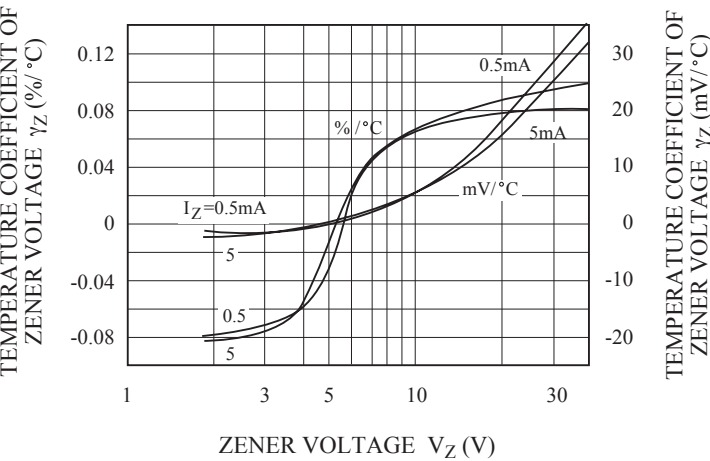
$I_Z - V_Z$



$P_d - T_a$



$\gamma_Z - V_Z$



TEMPERATURE COEFFICIENT OF ZENER VOLTAGE γ_Z (mV/°C)