



# SDZ3V0Q

Zener Diode

## Application

- Constant voltage regulation
- Reference voltage application

## Features

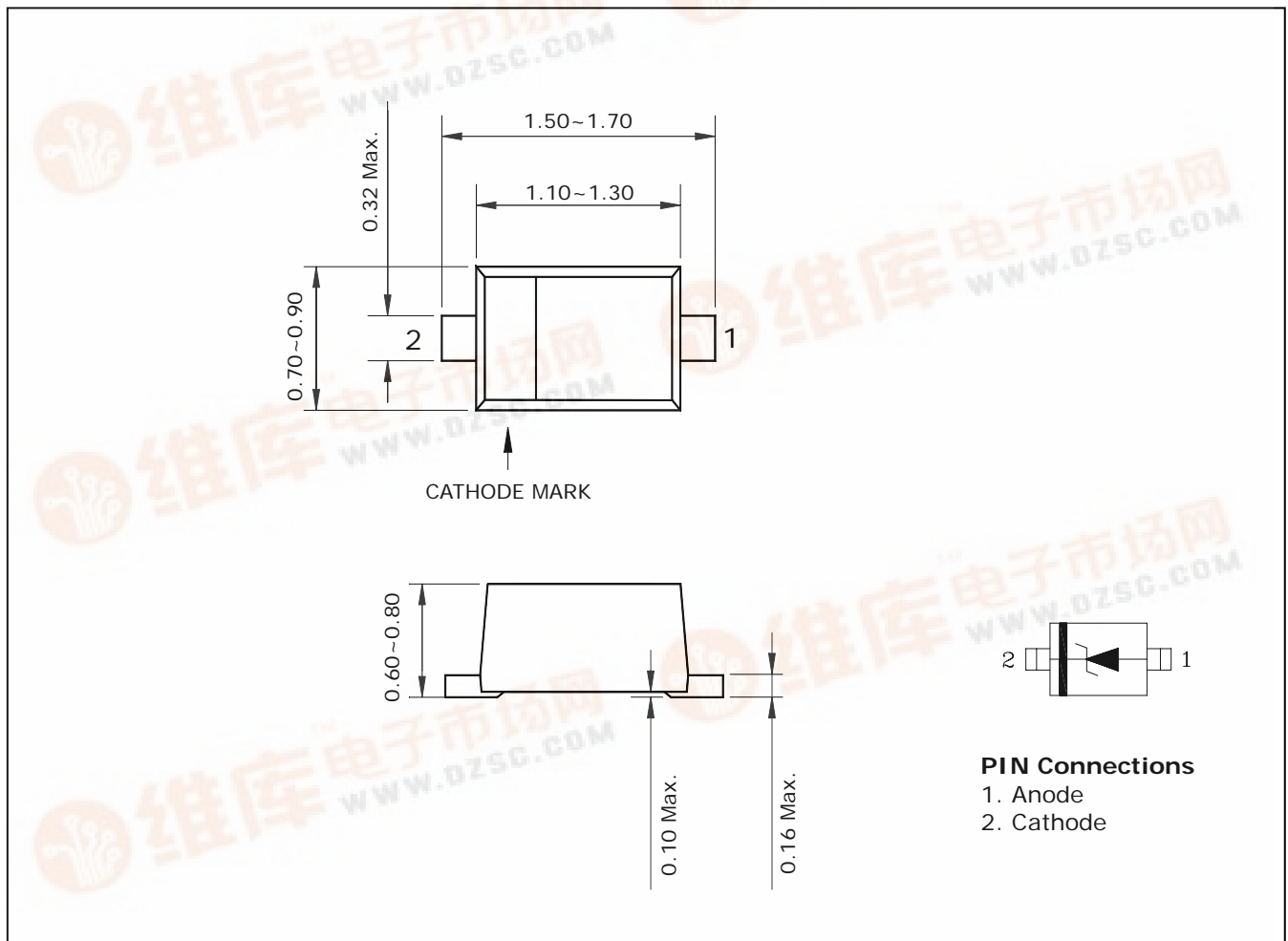
- Small and compact SMD package used SOD523
- Zener voltage  $V_Z = 3V$  type

## Ordering Information

Type NO.	Marking	Package Code
SDZ3V0Q	W8	SOD-523

## Outline Dimensions

unit : mm



**Absolute Maximum Ratings**

(Ta=25°C)

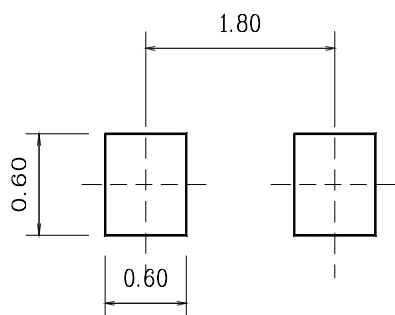
Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	120	mW
Junction temperature	$T_J$	150	°C
Storage temperature range	$T_{STG}$	-55 ~ +150	°C

**Electrical Characteristics**

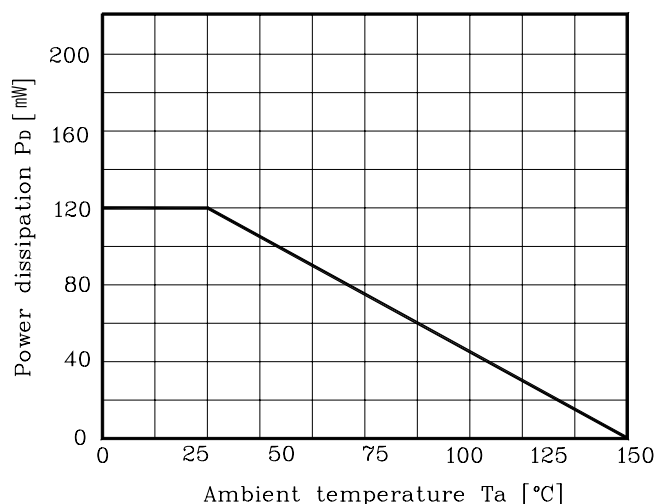
(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Zener voltage	$V_Z$	$I_Z=5\text{mA}$	2.85	-	3.15	V
Reverse current	$I_R$	$V_R=1\text{V}$	-	-	50	$\mu\text{A}$
Dynamic impedance	$Z_{ZT}$	$I_Z=5\text{mA}$	-	-	95	$\Omega$
KNEE dynamic impedance	$Z_{ZK}$	$I_Z=0.25\text{mA}$	-	-	2000	$\Omega$

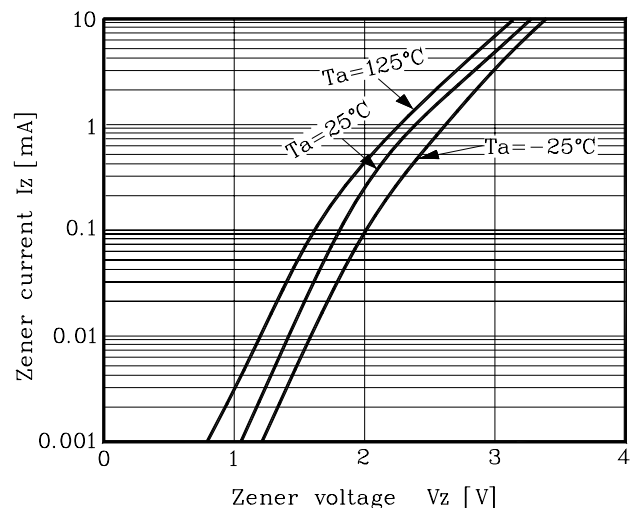
※ Recommend PCB solder land (Unit : mm)



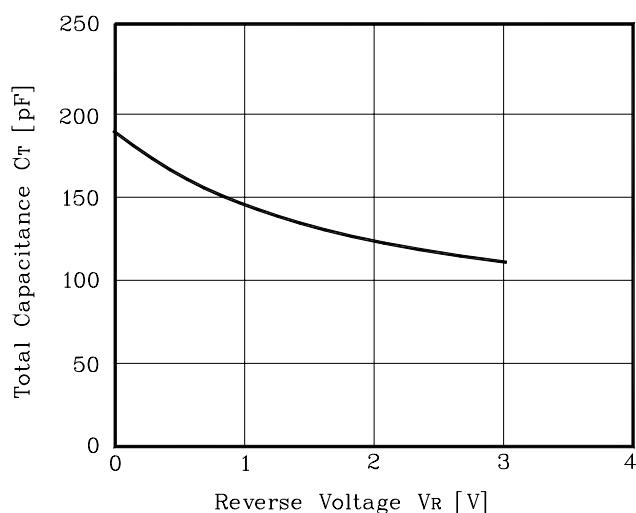
**Fig. 1  $P_D$ - $T_a$**



**Fig. 2  $I_Z$ - $V_Z$**



**Fig. 3  $C_T$ - $V_R$**



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