

# PZS228V2BSQ

## SURFACE MOUNT SILICON ZENER DIODE

**VOLTAGE**

**8.2V**

**POWER**

**250 mWatt**

### Features

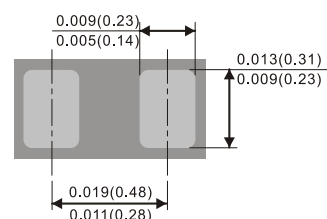
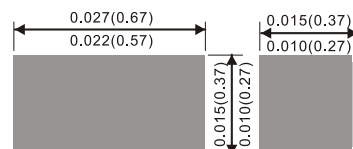
- Planar Die construction
- 250mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### Mechanical Data

- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

**DFN0603**

**Unit: inch(mm)**



**Maximum Ratings** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation at $T_A=25^{\circ}\text{C}$ (Notes 1)	$P_D$	250	mW
Typical Thermal Resistance (Notes 2)	$R_{\theta JA}$	500	$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	$T_J$	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$

#### NOTES :

1. Mounted on a 100cm<sup>2</sup> copper pads to each terminal.
2. Mounted on a FR-4 PCB, single-sided copper, mini pad .



## PZS228V2BSQ

Electrical Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Part Number	Nominal Zener Voltage				Nominal Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V <sub>Z</sub> @I <sub>ZT</sub>				Z <sub>ZT</sub> @I <sub>ZT</sub>		Z <sub>ZK</sub> @I <sub>ZK</sub>		I <sub>R</sub> @V <sub>R</sub>		
	Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	μA	V	
PZS228V2BSQ	8.2	7.79	8.61	5	20	5	80	1	0.1	6	L



## PZS228V2BSQ

Electrical Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

### TYPICAL CHARACTERISTIC CURVES

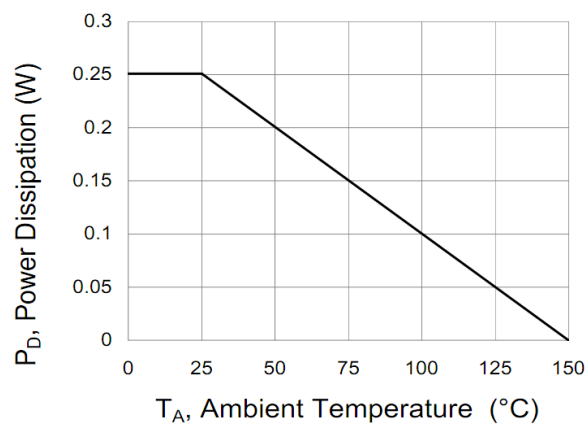


Fig.1 Steady-State Power Derating Curve



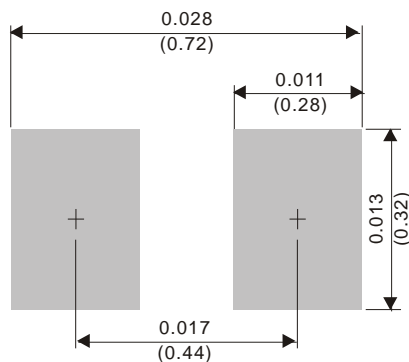
# PZS228V2BSQ

## PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PZS228V2BSQ_R1_00001	DFN0603	10K pcs / 7" reel	L	Halogen free

## MOUNTING PAD LAYOUT

### DFN 0603 Unit : inch(mm)





## **PZS228V2BSQ**

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