



# PZA1AL5V6B

## SILICON ZENER DIODE

**VOLTAGE**

**5.6V**

**POWER**

**1Watt**

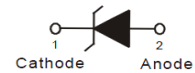
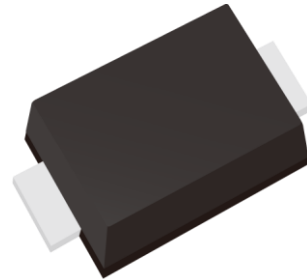
### Features

- Silicon planar Zener diode
- Low profile surface-mount package
- Low leakage current
- Excellent stability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### Mechanical Data

- Case: SOD-123FL, plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

SOD-123FL



### 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)	$P_D$	1	W
ESD Voltage per IEC61000-4-2 (Air)	$V_{ESD}$	$\pm 30$	kV
ESD Voltage per IEC61000-4-2 (Contact)		$\pm 30$	
Typical Thermal Resistance (Notes 1)	$R_{\theta JA}$	125	$^{\circ}\text{C}/\text{W}$
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  $10\text{cm}^2$  copper pads to each terminal.



# PZA1AL5V6B

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
	$V_Z@I_{ZT}$				$Z_{ZT}@I_{ZT}$		$I_R@V_R$		
	Nom. V	Min. V	Max. V	mA	$\Omega$	mA	$\mu\text{A}$	V	
PZA1AL5V6B	5.6	5.32	5.88	20	40	20	10	2	KFH



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

## TYPICAL CHARACTERISTIC CURVES

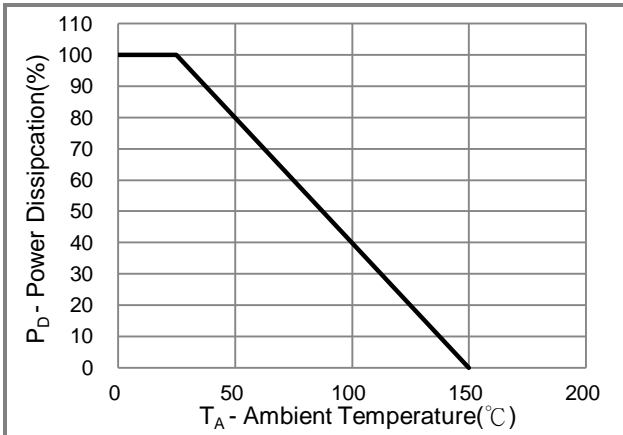


Fig.1 Power Derating Curve

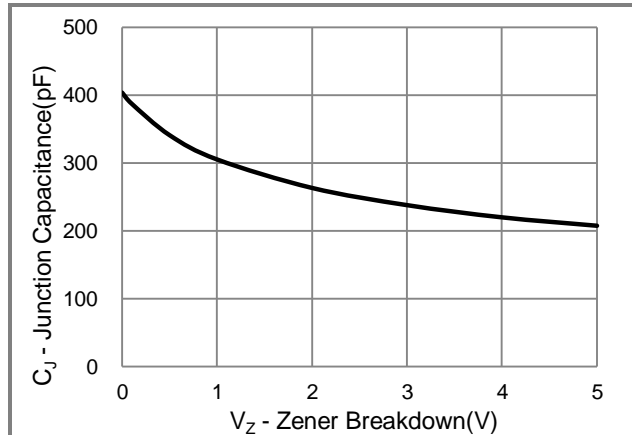


Fig.2 Typical Junction Capacitance

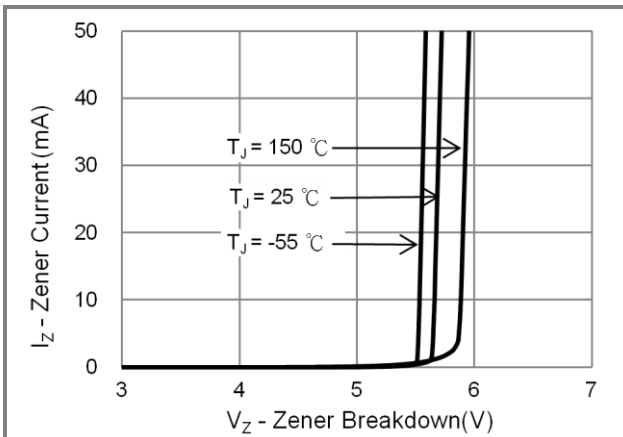


Fig.3 Typical Zener Breakdown Characteristics

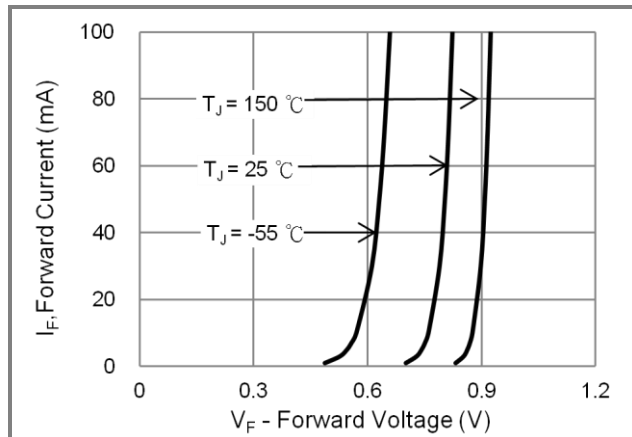


Fig.4 Typical Forward Characteristics



# PZA1AL5V6B

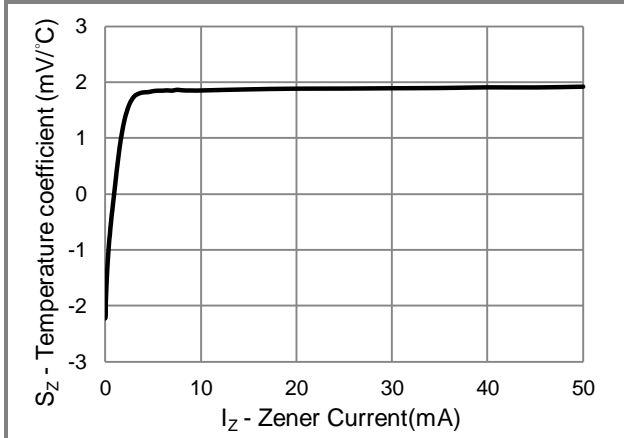


Fig.5 Typical Temperature coefficient

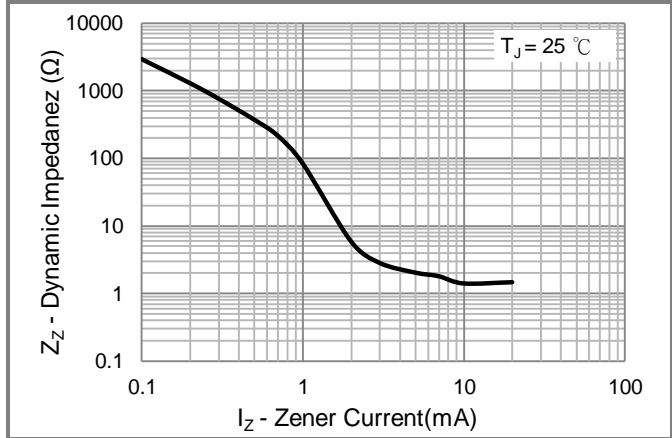


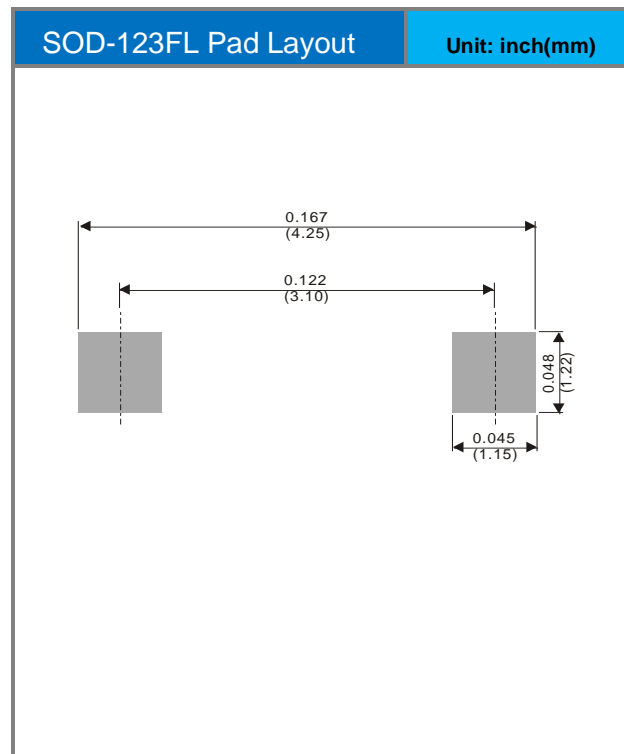
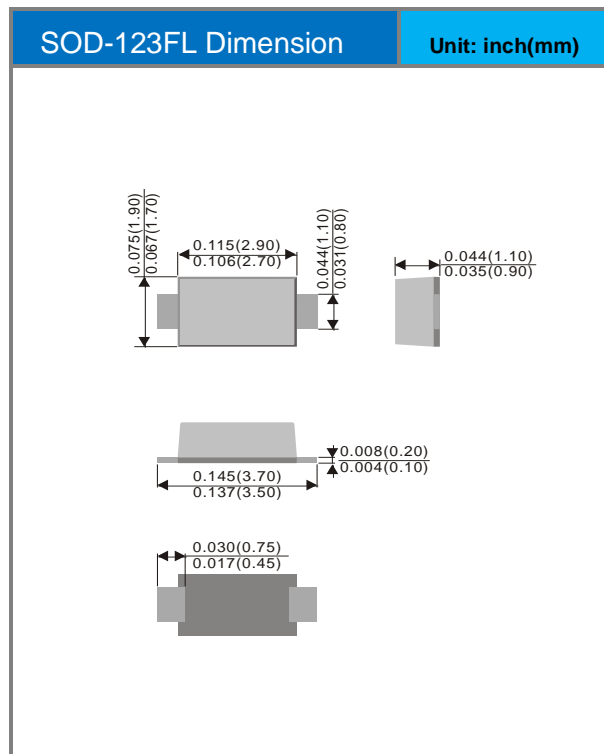
Fig.6  $Z_Z$ - $I_Z$  Characteristics



# PZA1AL5V6B

Part No Packing Code	Package Type	Packing Type	Marking	Version
PZA1AL5V6B_R1_00001	SOD-123FL	3K pcs / 7" reel	KFH	Halogen free

## Packaging Information & Mounting Pad Layout





## **PZA1AL5V6B**

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