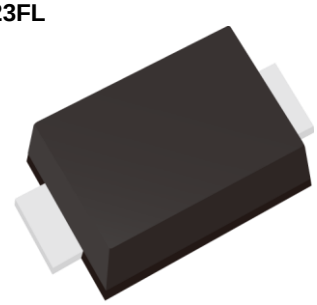
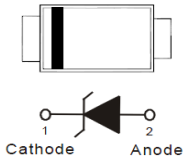
PZA1AL5V6B

SILICON ZENER DIODE

VOLTAGE	5.6V	POWER	1Watt

SOD-123FL





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

Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation at T_A=25°C (Notes 1)	P_D	1	W
ESD Voltage per IEC61000-4-2 (Air) ESD Voltage per IEC61000-4-2 (Contact)	V_{ESD}	±30 ±30	kV
Typical Thermal Resistance (Notes 1)	$R_{\theta JA}$	125	°C /W
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES :

1. Mounted on a 10cm^2 copper pads to each terminal.

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Electrical Characteristics (T_A=25°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	Ω	mA	μA	V	
PZA1AL5V6B	5.6	5.32	5.88	20	40	20	10	2	KFH

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Electrical Characteristics (T_A=25°C unless otherwise noted)

TYPICAL CHARACTERISTIC CURVES

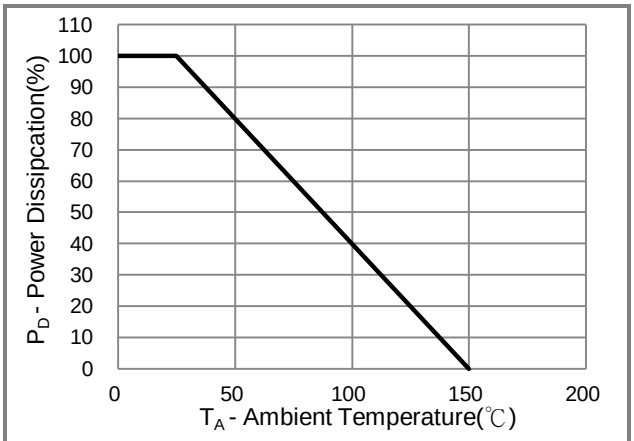

Fig.1 Power Derating Curve

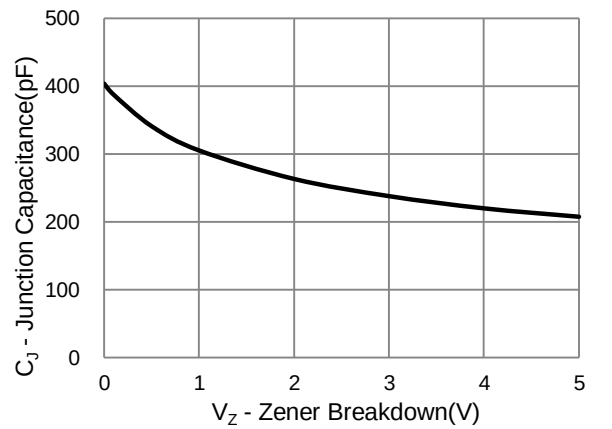

Fig.2 Typical Junction Capacitance

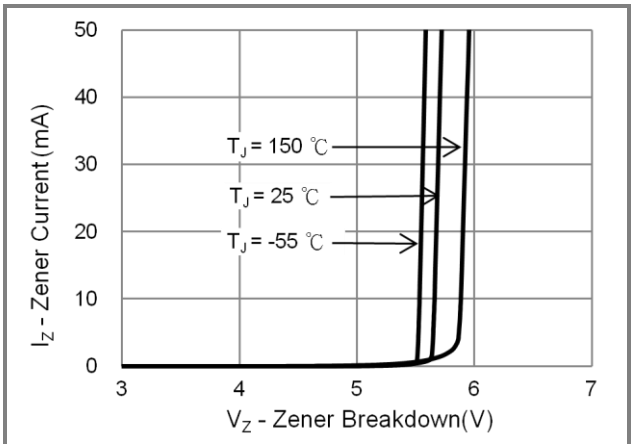

Fig.3 Typical Zener Breakdown Characteristics

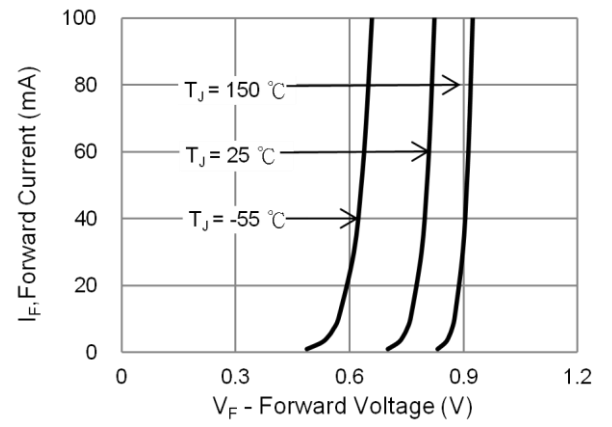

Fig.4 Typical Forward Characteristics

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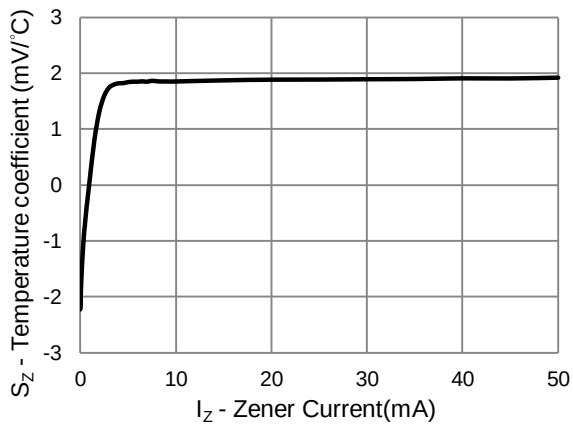


Fig.5 Typical Temperature coefficient

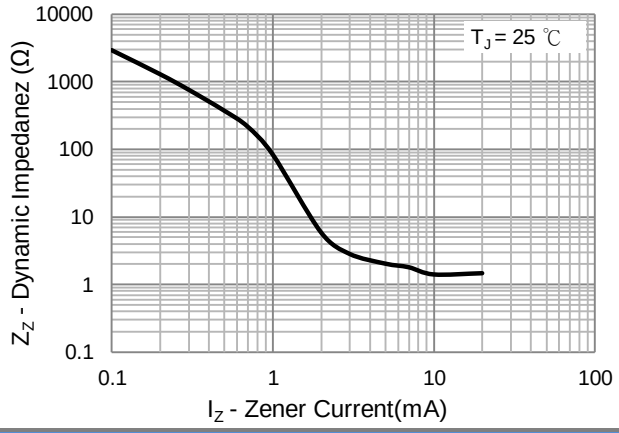


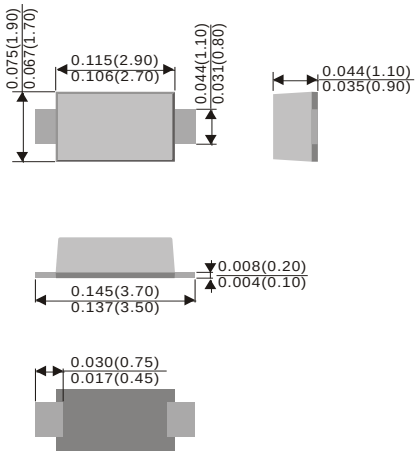
Fig.6 Z_Z-I_Z Characteristics

PZA1AL5V6B

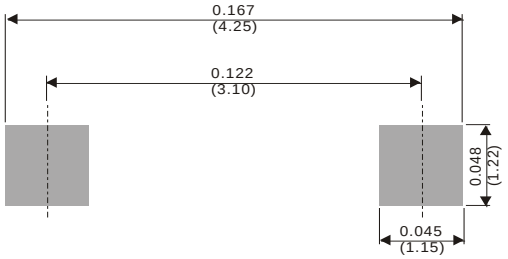
Part No Packing Code	Package Type	Packing Type	Marking	Version
PZA1AL5V6B_R1_00001	SOD-123FL	3K pcs / 7” reel	KFH	Halogen free

Packaging Information & Mounting Pad Layout

SOD-123FL Dimension — Unit: inch(mm)



SOD-123FL Pad Layout — Unit: inch(mm)



PZA1AL5V6B

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