

Low I_{ZT} Zener Diodes

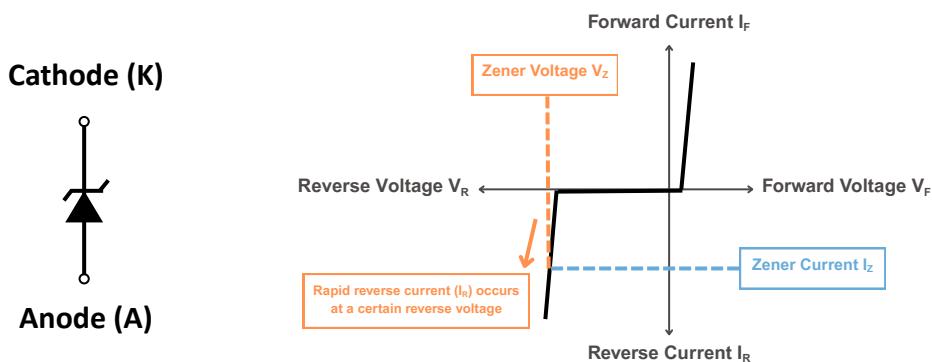
Smart Solutions for Precision Voltage Regulation



Engineered with ultra-low I_{ZT} characteristics, the latest generation of Zener diodes delivers precise voltage regulation with minimal power consumption. These diodes are ideal for low-bias, battery-powered, and compact system designs across automotive, industrial, and portable electronics sectors.

► Key Features

- AEC-Q101 qualified
- Ultra-low I_{ZT} for energy-efficient operation
- Stable voltage regulation across wide current range
- Low leakage current enhances accuracy and reliability
- Compact packages: SOD-123/FL/HE, SOD-323HE, SOD-523, etc.



Part Number	Package	P_D	$V_Z @ I_{ZT}$ (Nom.)	$V_Z @ I_{ZT}$ (Min.)	$V_Z @ I_{ZT}$ (Max.)	I_{ZT}	P_D	
		W	V	V	V	mA	mW	%
PZA1AL5V6B	SOD-123FL	1	5.6	5.32	5.88	20	112	100%
1N4734A	DO-41	1	5.6	5.3	5.9	45	252	225%
1SMA4734	SMA	1	5.6	5.3	5.9	45	252	225%
PZ1AFC5V6B	SMAF-C	1	5.6	5.32	5.88	100	560	500%
PZ1AH5V6B	SOD-123HE	1	5.6	5.32	5.88	100	560	500%
PZ1AL5V6B	SOD-123FL	1	5.6	5.32	5.88	100	560	500%



► Target Applications

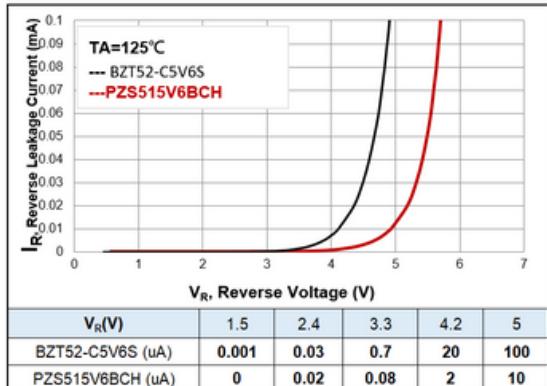
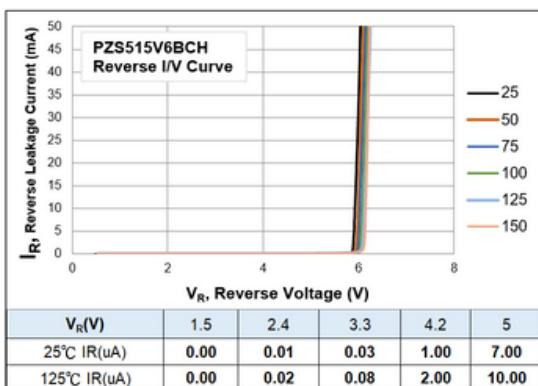
- Industrial devices
- Automotive systems
- Portable electronics
- Mobile and wearable devices
- Battery charging systems
- Low-current general regulation
- Protection for MOSFET / BJT switch circuits

► Recommended Small Signal ZENER(<1W)

Ideal for low-bias and battery-powered portable applications

P _D (mW)	V _Z (%)	V _Z @ I _{ZT} (V)	I _{ZT} (mA)	SOD-523	SOD-323HE	SOD-123
150	5	3.9~43	50	PZS11xxBES-AU		
500	5	3.9~43	50		PZS51xxBCH-AU	
500	5	3.9~43	50			PZS51xxBAS-AU

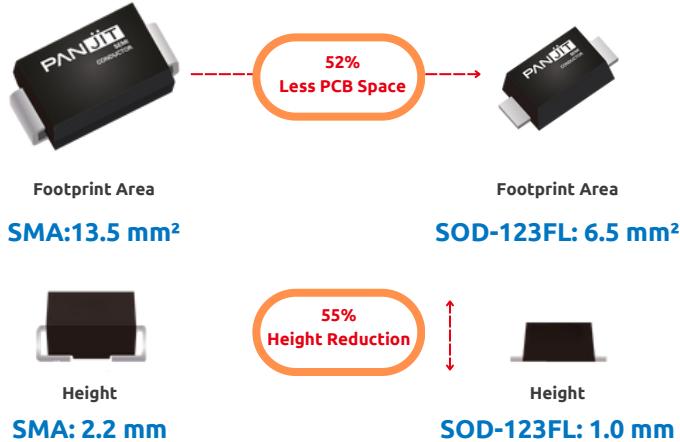
Ultra-Low Zener Diodes Current Test



► Recommended Power ZENER(>1W)

P _D (mW)	V _Z (%)	V _Z @ I _{ZT} (V)	I _{ZT} (mA)	SOD-323HE	SOD-123HE	SOD-123FL	SMAF-C
1000	5	5.6-43	5-20			PZA1ALxxB-AU	
1000	2	5.6-43	5-20	PZAH1CHxxA-AU	PZAH1AHxxA-AU	PZAH1ALxxA-AU	PZAH1AFCxxA-AU

Compact Package Upgrade



Low Leakage Before Breakdown for Enhanced Accuracy

