



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
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DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

SZH6

Screening ^{2/}

— = Not Screened

TX = TX Level

TXV = TXV Level

S = S Level

Package:

S.22 = SMD.22

Voltage: ex 4.3 = 4.3 V

Tolerances:

A = 10%

B = 5%

SZH6A4.3 – SZH6B10 Series

**12 Watt
Bidirectional Zener Diode
Low Voltage Avalanche
4.3 - 10 Volts**

FEATURES:

- High Power Dissipation
- Hermetically Sealed Ceramic Package
- Extremely Small Footprint
- Low Zener Impedance
- Low Reverse Leakage
- Low Noise
- TX, TXV, and Space Level Screening Available^{2/}
- Available in 10% and 5% Tolerances. For Other Voltage Tolerances, Contact Factory.

Maximum Ratings (per leg) ^{3/4/}	Symbol	Value	Unit
Nominal Zener Voltage	V_Z	4.3 - 10	V
Steady State Power Dissipation	P_D	6	W
Noise Density ^{5/}	N_D	4	$\mu V/\sqrt{Hz}$
Operating and Storage Temperature	$T_{op} \& T_{stg}$	-65 to +175	°C
Thermal Resistance (Junction to Case)	$R_{\theta JC}$	25	°C/W

NOTES:

^{1/} For ordering information, price, operating curves, and availability – contact factory.

^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.

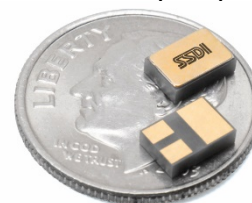
^{3/} All Zener voltages are measured with an automated test set using a 35 msec test time. Longer or shorter test times will have a corresponding effect on the measured value due to heating effects.

^{4/} Unless otherwise specified, all electrical characteristics @ 25°C.

^{5/} Band pass = 1 to 3 khz; $I_Z = 250 \mu A$

^{6/} Difference between $V_Z @ I_{ZL}$ and $V_Z @ I_{ZT}$

SMD.22 (S.22)



*Dime used for size reference

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: Z00024A

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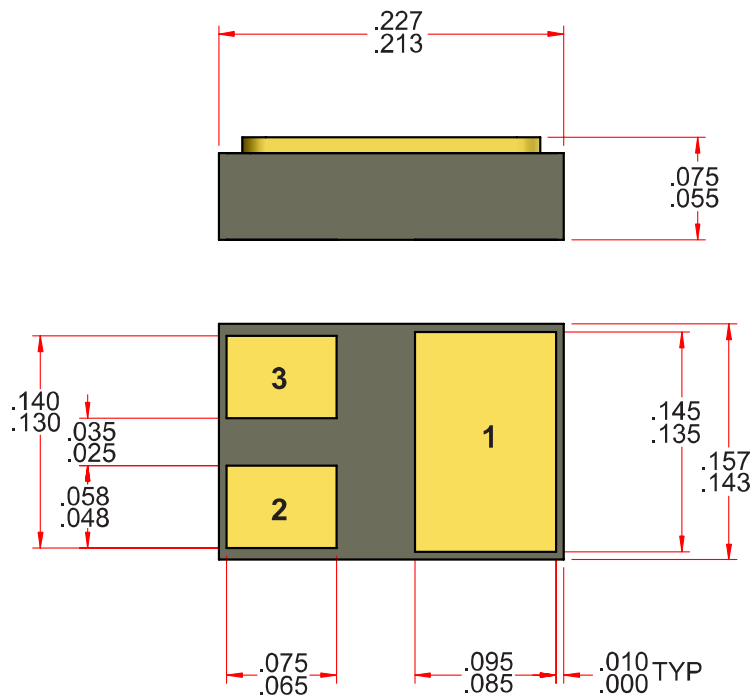
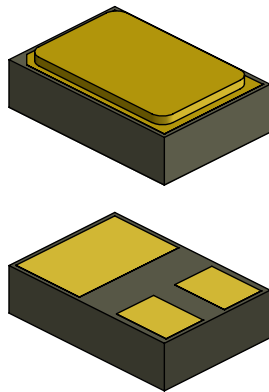
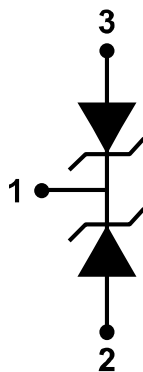
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SZH6A4.3 – SZH6B10 Series

Electrical Characteristics^{3/4/}

Part Number	Zener Voltage @ I _{ZT}	Test Current	Maximum Impedance	Maximum Reverse Leakage Current		Maximum Forward Voltage @ 500mA	Regulation Factor ^{6/}	
	V _Z (nom)	I _{ZT}	Z _Z @ I _{ZT}	I _R @ V _R	V _R	V _F	ΔV _Z	I _{ZL}
	Volts	mA	Ohms	μA	Volts	Volts	Volts	mA
SZH6A4.3S.22	4.3	20	30	3	1.5	1.2	0.75	2.00
SZH6A4.7S.22	4.7	10	25	2	2.0	1.2	0.70	1.00
SZH6A5.1S.22	5.1	5	30	2	2.5	1.2	0.50	1.00
SZH6A5.6S.22	5.6	1	40	2	3.5	1.2	0.30	0.25
SZH6A6.2S.22	6.2	1	40	1	5.0	1.2	0.30	0.25
SZH6A6.8S.22	6.8	1	40	1	6.2	1.2	0.10	0.01
SZH6A7.5S.22	7.5	1	40	0.5	6.8	1.3	0.10	0.01
SZH6A8.2S.22	8.2	1	60	0.5	7.5	1.3	0.10	0.01
SZH6A9.1S.22	9.1	1	60	0.1	8.2	1.3	0.10	0.01
SZH6A10S.22	10.0	1	60	0.1	9.1	1.3	0.10	0.01

Package Outline: SMD.22 (S.22)



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