



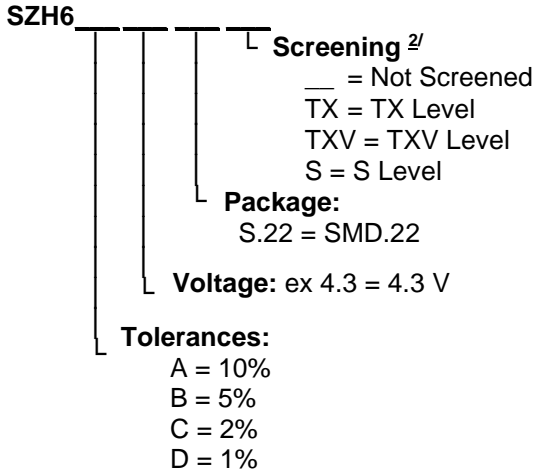
Solid State Devices, Inc.

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SZH6A4.3 – SZH6D10 Series

DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

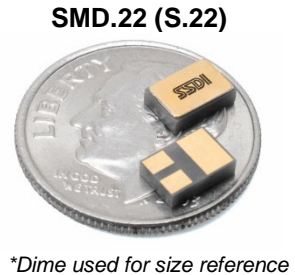


12 Watt Bidirectional Zener Diode Low Voltage Avalanche 4.3 - 10 Volts

- 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%, 5%, 2%, and 1% Tolerances

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	µV/√Hz
Operating and Storage Temperature	T_{op} & T_{stg}	-65 to +175	°C
Thermal Resistance (Junction to Case)	R_{θJC}	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 µA
 - 6/ Difference between V_Z @ I_{ZL} and V_Z @ I_{ZT}





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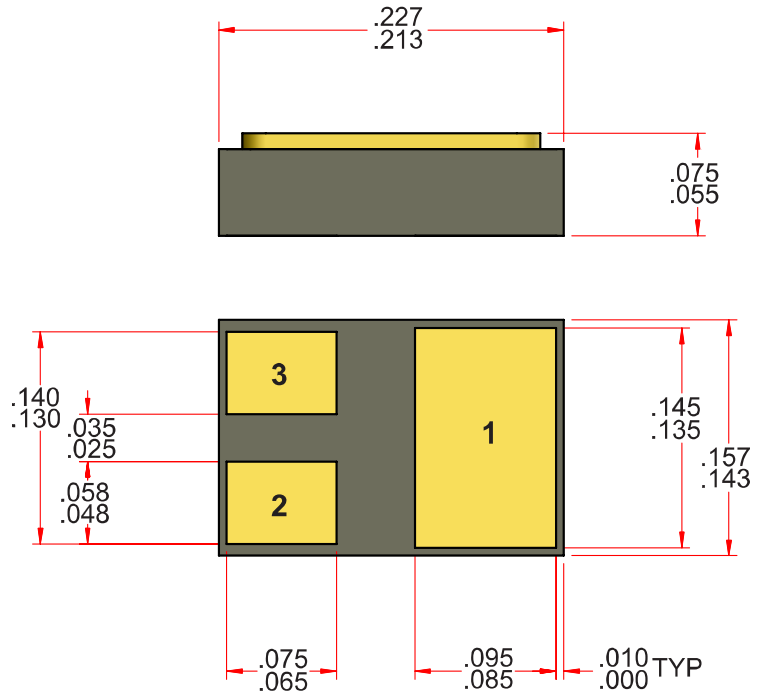
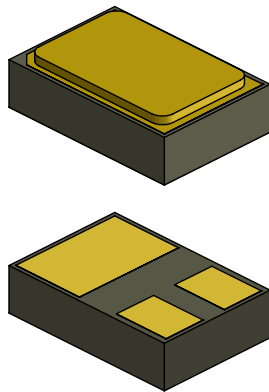
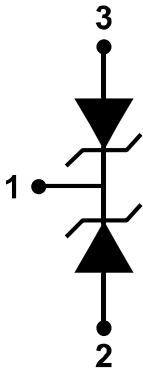
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Electrical Characteristics^{3/A}

Part Number	Zener Voltage @ I _{ZT}	Test Current	Maximum Impedance	Maximum Reverse Leakage Current		Maximum Forward Voltage @ 500 mA	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)



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

DATA SHEET #: Z00024B

DOCX