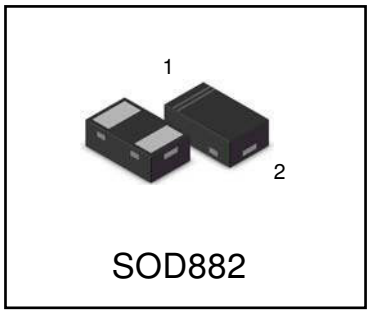
Discription

The SXESD25C8BT is designed to protect voltage sensitive components from ESD. Low clamping voltage , low leakage.

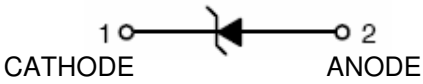


Applications

- CAN bus protection
- Automotive applications

Features

- Low Leakage
- Low clamping voltage.
- IEC61000−4−2 Level 4 ESD Protection
- We declare that the material of product compliance with RoHS requirements.



Ordering information

Device	Shipping
SXESD25C8BT	10000/Tape&Reel

MAXIMUM RATINGS

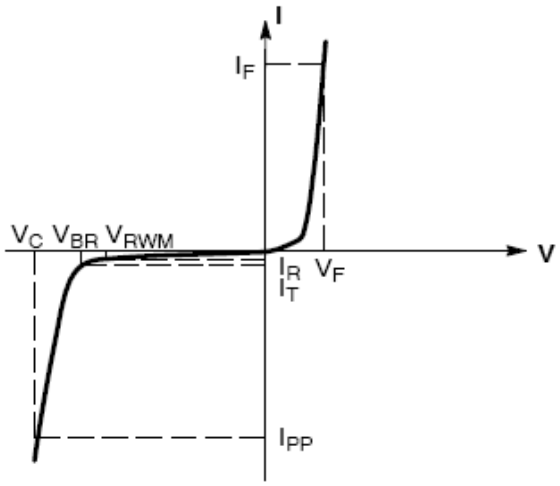
Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air Contact discharge		±30 ±30	kV kV
peak pulse power@8/20 μs	PPP	350	W
peak pulse current @8/20 μs	IPP	8	A
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	℃

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-5 = 1.0*0.75*0.62 in.

ELECTRICAL CHARACTERISTICS
(T_A = 25°C unless otherwise noted)

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F
P_{pk}	Peak Power Dissipation
C	Max. Capacitance @V_R = 0 and f = 1 MHz



Uni-Directional TVS

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

Device	V_{RWM} (V)	I_{RM} (n A) @ V_{RWM}	V_{BR} (V) @ I_T (Note 2)		I_T (mA)	I_{PP} (A)	V_C (V) @ I_{PP} =5A	V_C (V) @ I_{PP} =8A	C (pF)
	Max	Max	Min	Max		Max	Max	Max	Typ
SXESD25C8BT	25	200	25.7	28.4	1.0	8	32	35	50

2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25℃

OUTLINE AND DIMENSIONS

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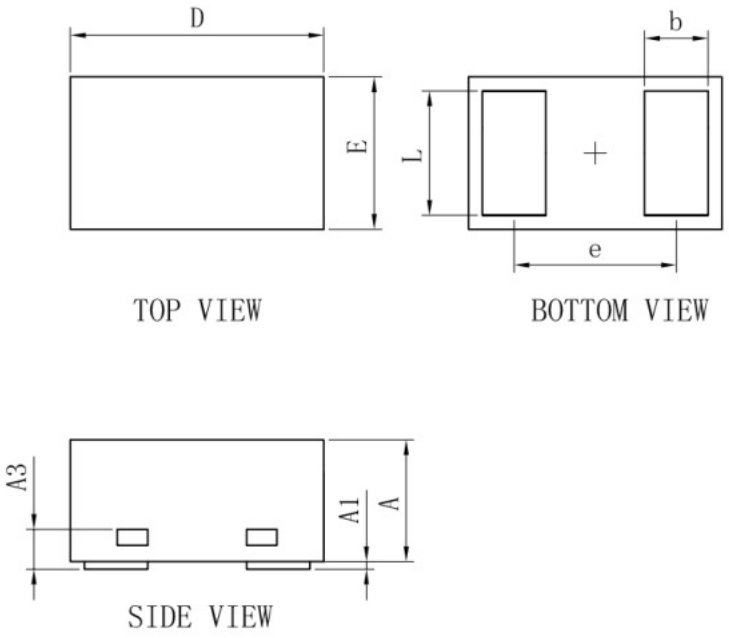

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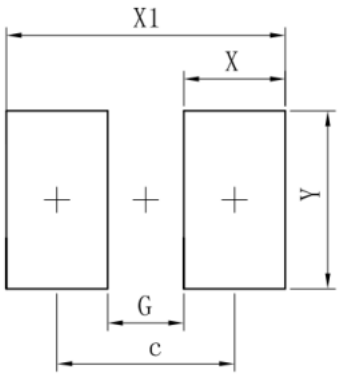
Dim	Min	Typ	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			

SOLDERING FOOTPRINT

SOD882



Dimensions	(mm)
c	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70