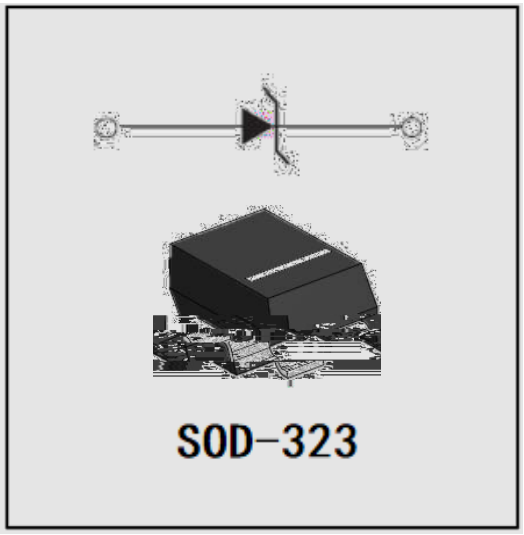
ESD Protection Diode



Features

- For sensitive ESD protection
- Low leakage
- Uni-directional ESD protection of one line
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

- **Package**: SOD323
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** ZF

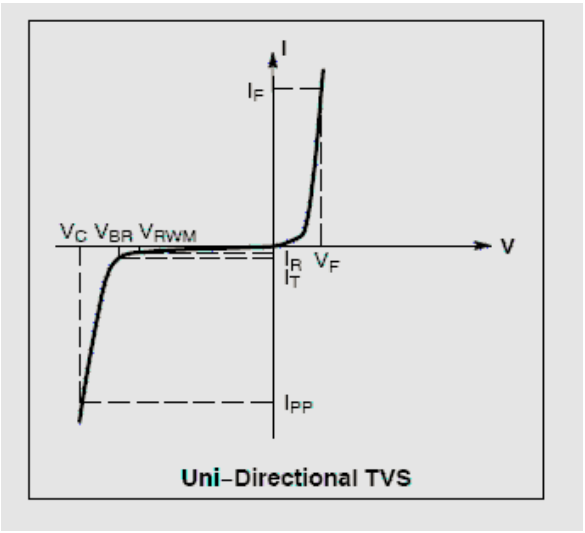
■Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Operating Junction & Storage Temperature	T_J&T_{STG}	-45 to +125	
IEC61000-4-2(ESD)Air	V_{ESD} [1]	30	KV
IEC61000-4-2(ESD)Contact		30	KV
Peak Pulse Current, t_P=8/20μs	I_{PP} [2]	15	A
Peak Power Dissipation, t_P=8/20μs	P_{PK} [2]	350	W

(1).Device stressed with ten

■Electrical Parameter

PARAMETER	SYMBOL
Clamping Voltage@ I_{PP}	V_C
Breakdown Voltage@ I_T	V_{BR}
Peak Pulse Current	I_{PP}
Test Current	I_T
Reverse Leakage Current@ V_{RWM}	I_R
Reverse Standoff Voltage	V_{RWM}
Forward Voltage@ I_F	V_F
Forward Current	I_F
Peak Power Dissipation	P_{PK}
Junction Capacitance @ V_R=0 and f=1MHz	Cj



v(OHFWULFDO &KDUDFWHULVWLFV RI WKH VSHFLILHG

3$5$0(7(5	6\PERO	81,7	&RQGLWLRQV	0LQ	7\S	0D[
5HYHUVH 6WDQGRII 9ROWDJH	95:0	9				
5HYHUVH /HDNDJH &XUUHQW	5		,5:0 9 $			9
%UHDNGRZQ 9ROWDJH	9%5		7 P$ 9		,	
)RUZDUG YROWDJH	9)		) P$ 9			,
&ODPSLQJ 9ROWDJH	9&	9	,33 $ 3W V			
&ODPSLQJ 9ROWDJH	9&	9	,33 $ 3W V			
-XQFWLRQ &DSDFLWDQFH	-	S)	& 9 9 I 0+]			

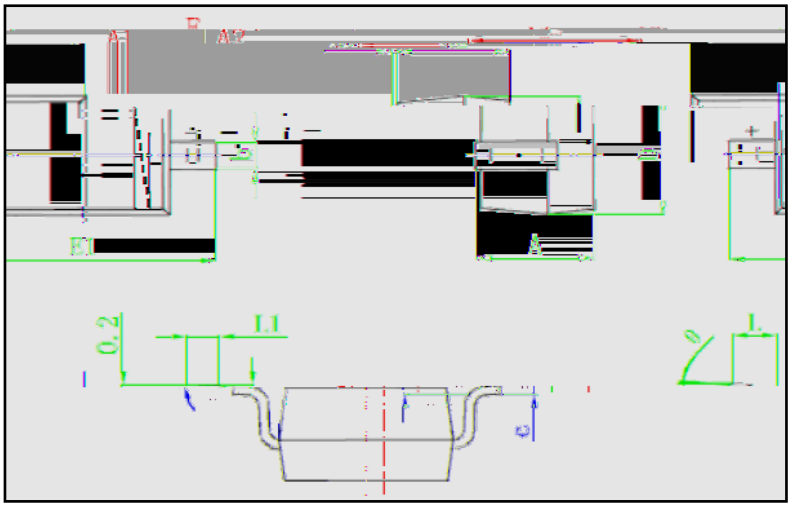
2WKHU YROWDJHV DYDLODEOH XSRQ UHTXHVW
1RQ UHSHWLWLYH FXUUHQW SXOVH GHUDWHG WR ,(&

v2UGHULQJ ,QIRUPDWLRQ ([DPSOH

35()(5(' 3 1	3$&.,1* &2'(	81,7 :(,*+7	0,1,080 3$&.$*(SF	,11(5 %2; 48$17,7< S	287(5 &$57 48$17,7< S	'(/,9(5< 02'(
(6' 9 '	)	$SSUR[LPDWH				´ UHH

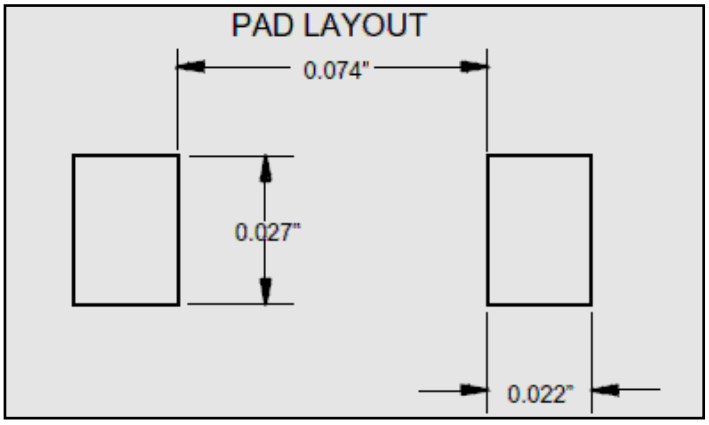
v&KDUDFWHULVWLFV 7\SLFDO

■ Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	2.800	3.000
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

■ Soldering Footprint



Unit inches

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