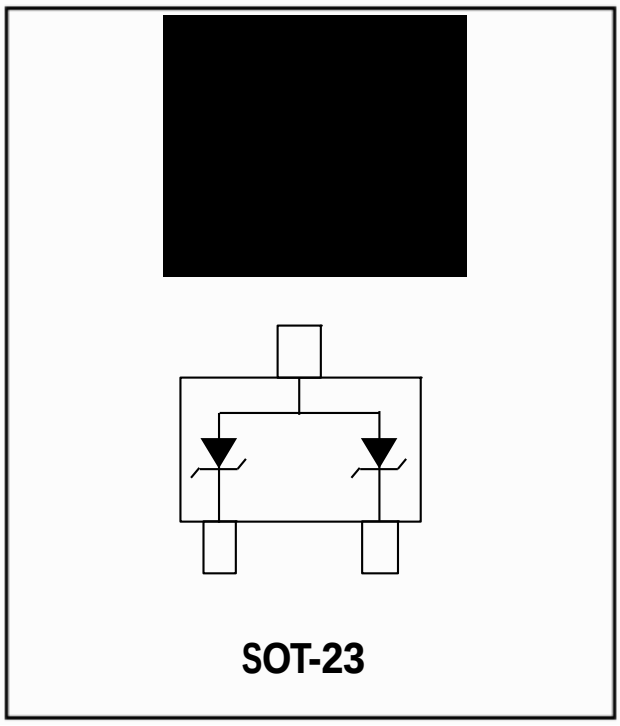
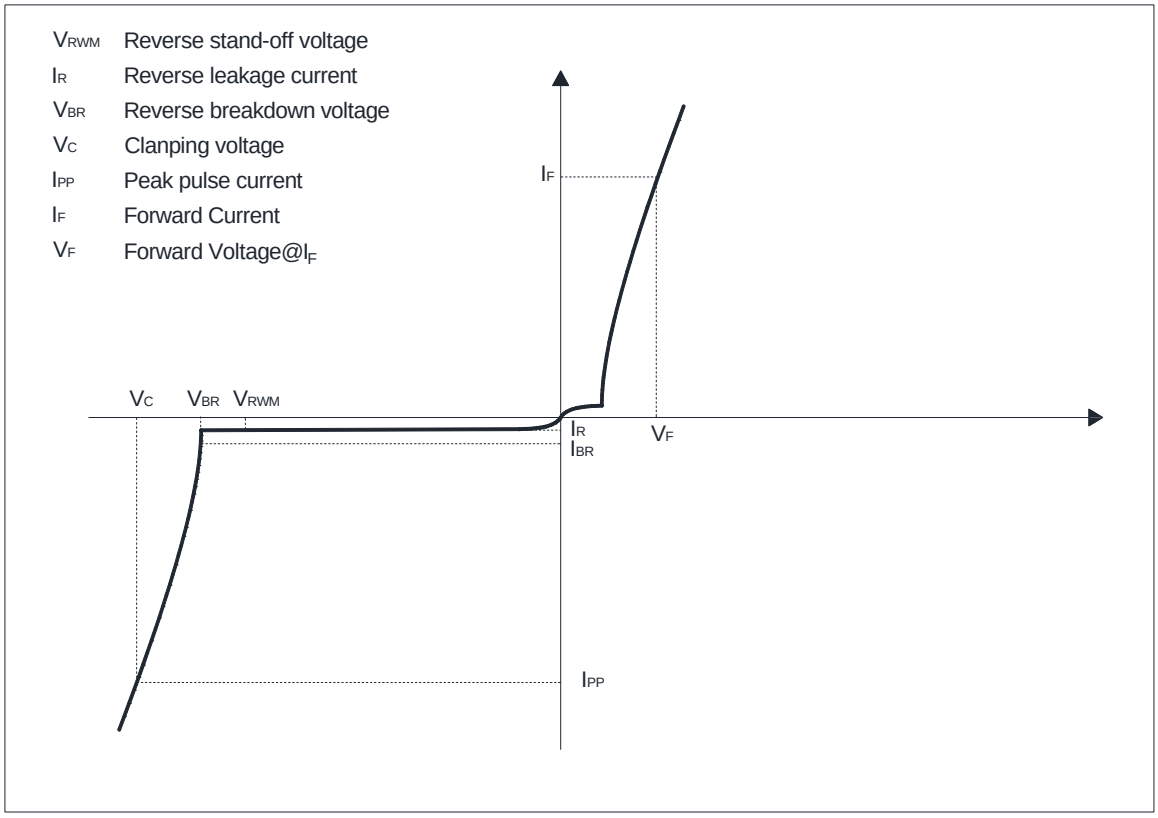


- Transient protection for each line according to
  IEC61000-4-2(ESD):
  IEC61000-4-5:14
- Low leakage current
- Ultra low clamping voltage
- RoHS Compliant
- Part no. with suffix “Q” means AEC-Q101 qualified

●Vehicle domain controller ,VCU electrostatic protection
●Electrostatic protection for automotive electronic multimedia interface
●CAN Bus protection
●Automotive applications

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020

■



■

Peak pulse power (t_p = 8/20μs)	P_{pk}	210	W
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	-55~150	℃
Storage temperature	T_{STG}	-55~150	℃

Notes:

CAUTION: Stresses above those listed in “Absolute Maximum Ratings” may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

■ （ ℃）

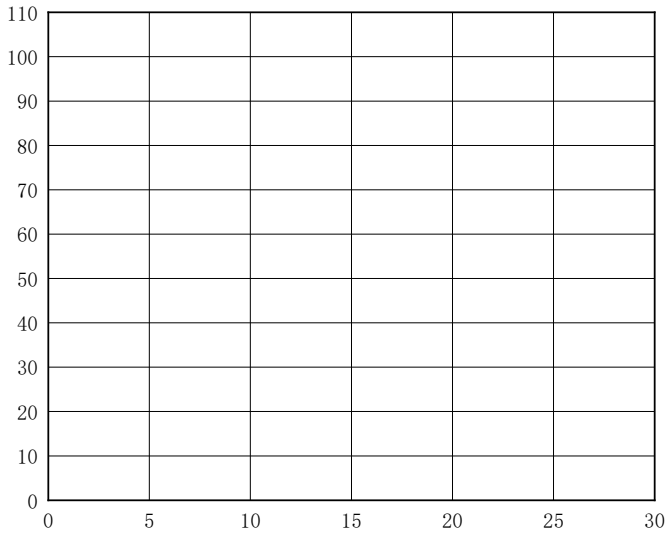
Reverse Standoff Voltage	V_{RWM}	V				3.3
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	5		6.9
Reverse leakage current	I_R	μA	V_{RWM} = 3.3V			0.5
Forward Voltage	V_F	V	I_F=10mA			1.1
Clamping voltage [1)]	V_C	V	I_{PP} = 1A, t_p = 8/20μs			9
		V	I_{PP} = 10A, t_p = 8/20μs			12
		V	I_{PP} = 14A, t_p = 8/20μs			15
	I_{PP}	A	t_p = 8/20μs			14
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz		105	150

Notes:

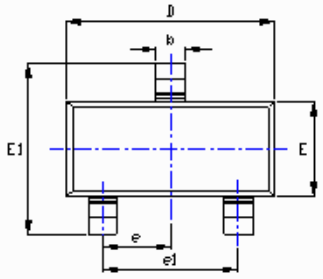
(1). Non-repetitive current pulse, according to IEC61000-4-5.

■

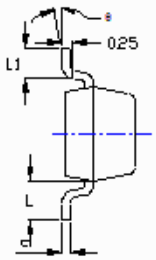
ESD0302ESQ	F2	Approximate 10	3000	30000	120000	7 reel


110
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30

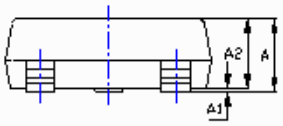
■



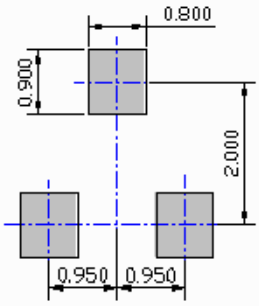
TOP VIEW



SIDE VIEW



SIDE VIEW



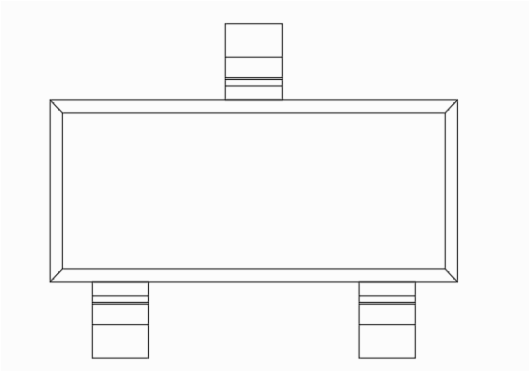
UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

DIMENSIONS				
SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037TYP		0.950TYP	
e1	0.071	0.079	1.800	2.000
L	0.022REF		0.550REF	
L1	0.012	0.020	0.300	0.500
θ	0°	8°	0°	8°

NOTE:
1.PACKAGE BODY SIZES EXCLUDE MOLD FLASH AND GATE BURRS.
2.TOLERANCE 0.1mm UNLESS OTHERWISE SPECIFIED.
3.THE PAD LAYOUT IS FOR REFERENCE PURPOSES ONLY.

■



Note:
1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with automotive electronics，are not designed for use in medical, life-saving, lifesustaining,or military,Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting fro m such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.