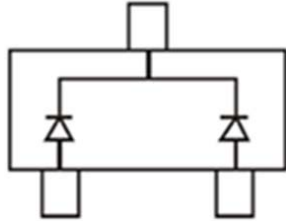


MM M



- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- Fast Switching Speed
- High Conductance
- Part no. with suffix "Q" means AEC-Q101 qualified

- Low-leakage current applications
- Automotive

- Case: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ **L** (T_a=25°C Unless otherwise specified)

C	M	O	P
Repetitive peak reverse voltage	V _{RRM}	V	100
Average Forward Current	I _{FAV} [1]	mA	215
Non-Repetitive Peak Forward Surge Current	I _{FSM}	A	tp=1us, 4
Power Dissipation	P _D	mW	250
Thermal Resistance from Junction to Ambient	R _{thJA}	/W	500
Operation Junction Temperature	T _J		-55 to +150
Storage Temperature	T _{STG}		-55 to +150

[1] Single diode loaded



PK

($T_a=25$ Unless otherwise specified, Per Leg)

C	M	O		N
Reverse Voltage	V_{BR}	V	$I_R=100\mu A$	100
Forward Voltage	V_F	V	$I_F=1mA$	0.9
			$I_F=10mA$	1
			$I_F=50mA$	1.1
			$I_F=150mA$	1.25
Reverse Current	I_R	nA	$V_R=75V$	5
Total Capacitance	C_J	pF	$V_R=0V, f=1.0MHz,$	4
Reverse Recovery Time	T_{rr}	us	$I_F=I_R=10mA, I_{rr}=0.1*I_R, R_L=100\Omega$	3

C

(Example)

LL	CA	CA	CA	CA	CA	CA
BAV170Q	F2	Approximate 0.01	3000	30000	120000	7" reel



.N

(Per Leg)

Fig.1: P_D-T_A

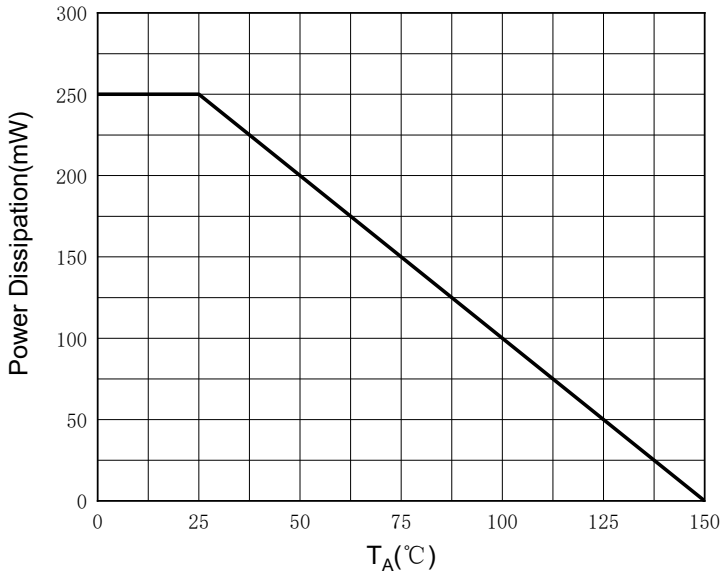


Fig.2: Capacitance Characteristics

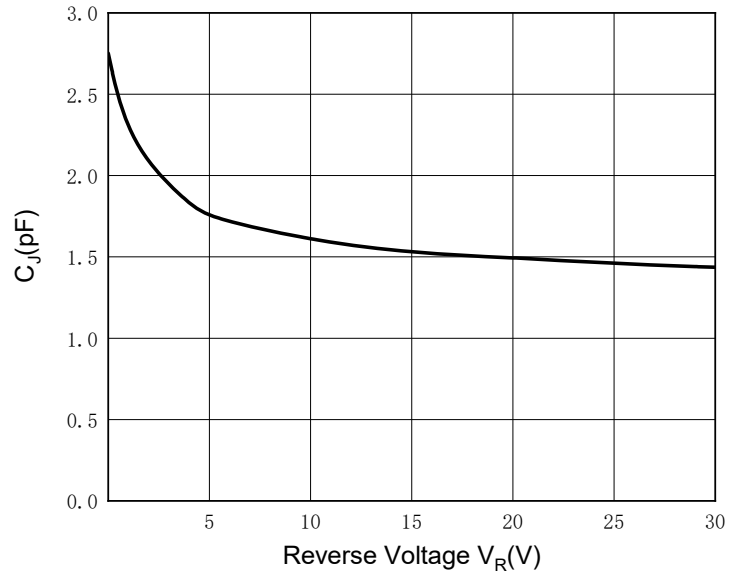


Fig.3: Forward Characteristics

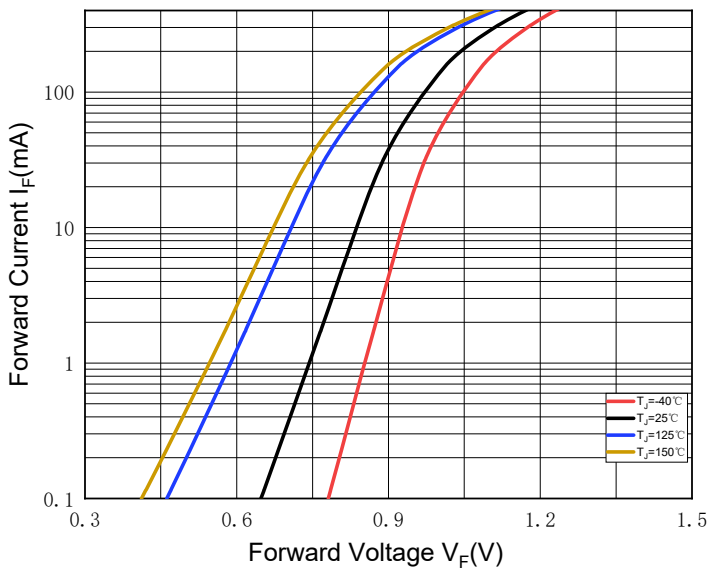
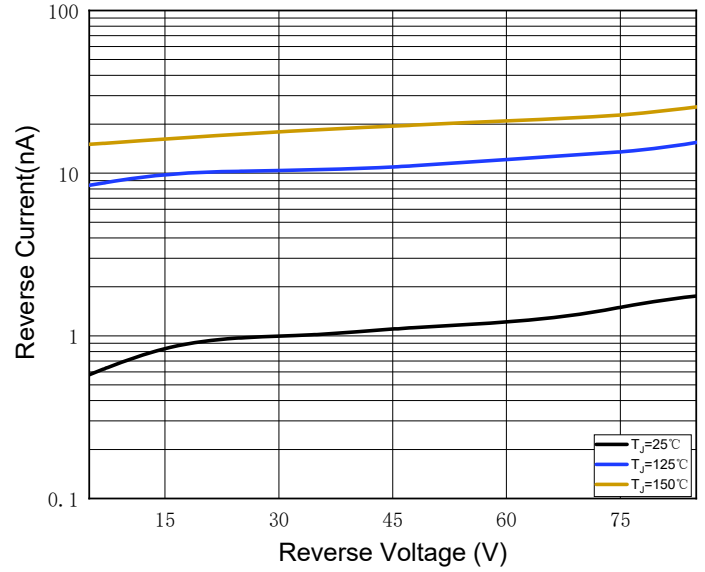


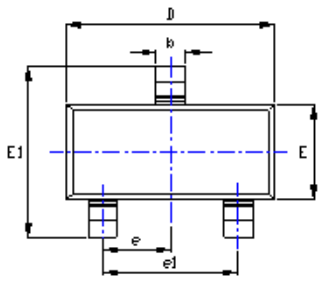
Fig.4: Reverse Characteristics



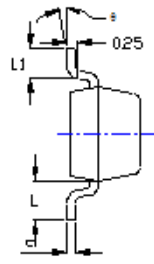


PK

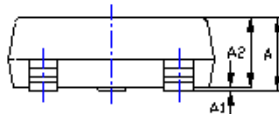
.MN



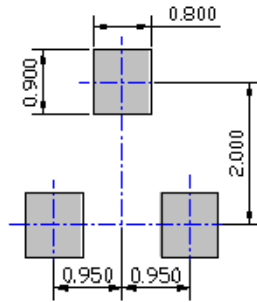
TOP VIEW



SIDE VIEW



SIDE VIEW



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

SYMBOL	DIMENSIONS			
	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°

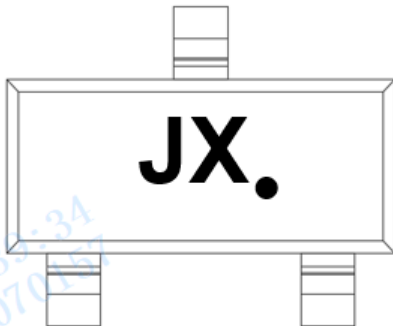
NOTE:

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.

C



Note:

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



PK

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 from such improper use of sale.

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