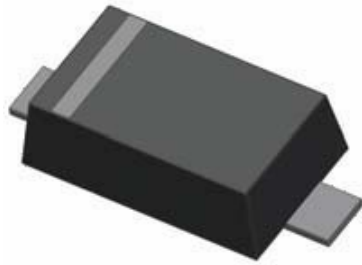
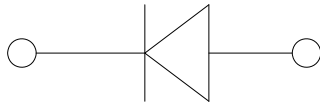


Small Signal Schottky Barrier Diode



SOD523



Features

- Epoxy meets UL-94 V-0 flame retardancy rating and halogen free
- Moisture Sensitivity Level 1
- V_{RM} 40V
- I_{FAV} 200mA
- Part no. with suffix means AEC-Q101 qualified

Applications

- Low Forward Voltage Drop
- Automotive

Mechanical Data

- Case: SOD523
- Terminals: Tin plated leads, solderable per J-STD-002 and JEDEC B102
- Polarity: Cathode line denotes the cathode end

Maximum Ratings ($T_a = 25^\circ\text{C}$)

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Maximum Repetitive peak reverse voltage	V_{RRM}	V		40
DC Blocking Voltage	V_R	V		40
Average Forward Current	I_{FAV}	mA		200
Peak Forward Surge Current	I_{FSM}	A	8 . 3ms , half sine	1
Power Dissipation	P_{tot}	mW		150
Thermal Resistance Junction to Ambient	R_{thJA}	K/W		667
Junction Temperature	T_J			-55 to +125
Storage Temperature Range	T_{stg}			WR



RB521S-40Q

vElectrical Characteristics Ä 7D 8QOHVV RWKHUÄLVH VSHFLILHG

PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	MAX	f B
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Characteristics (Typical)

Fig.1: P_D-T_A

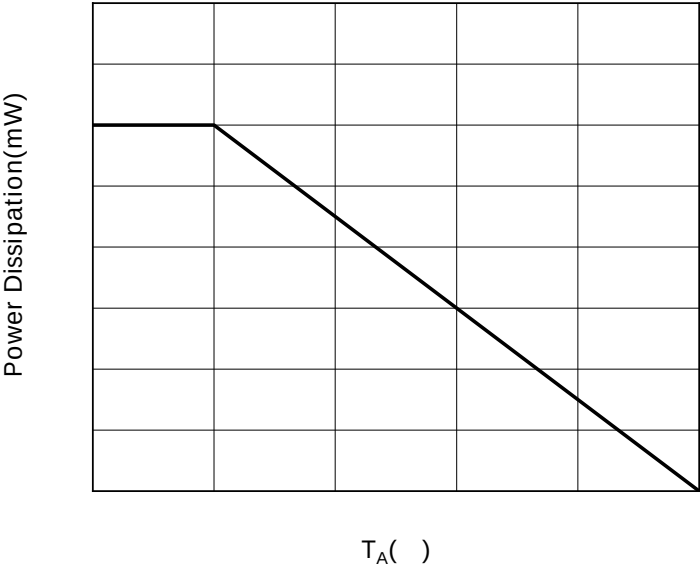


Fig.2: Capacitance Characteristics

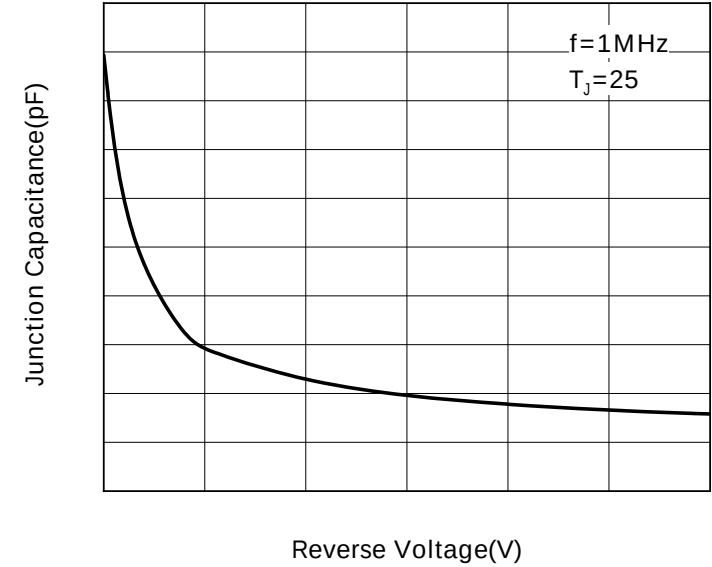


Fig.3: Forward Characteristics

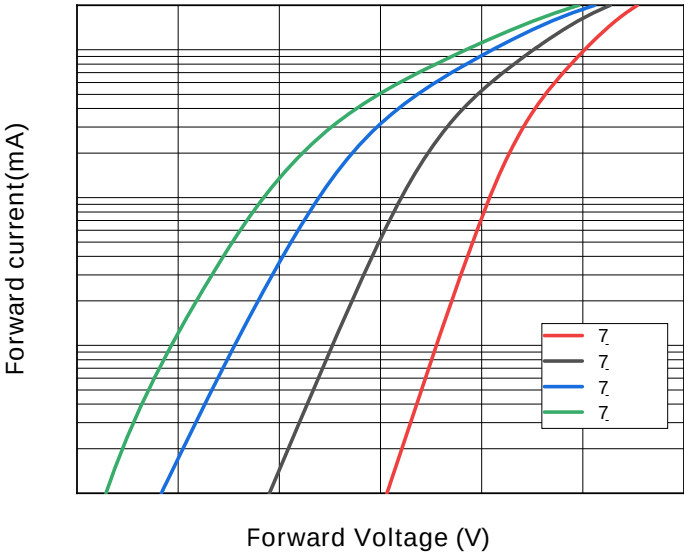
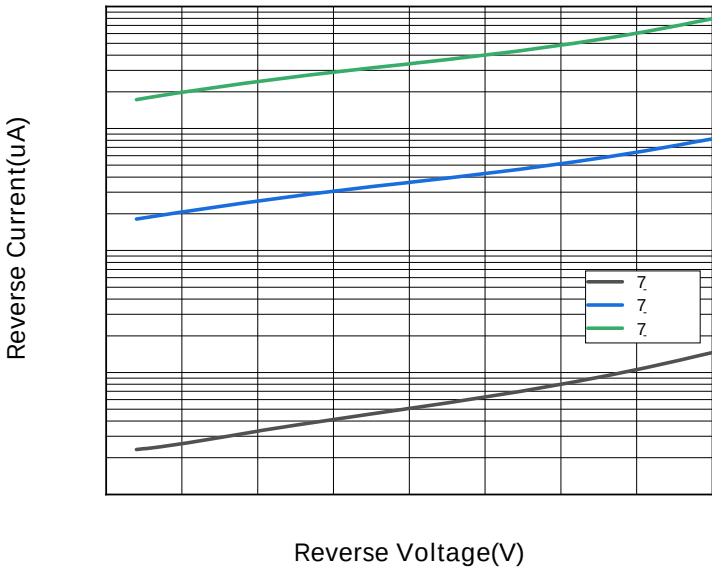
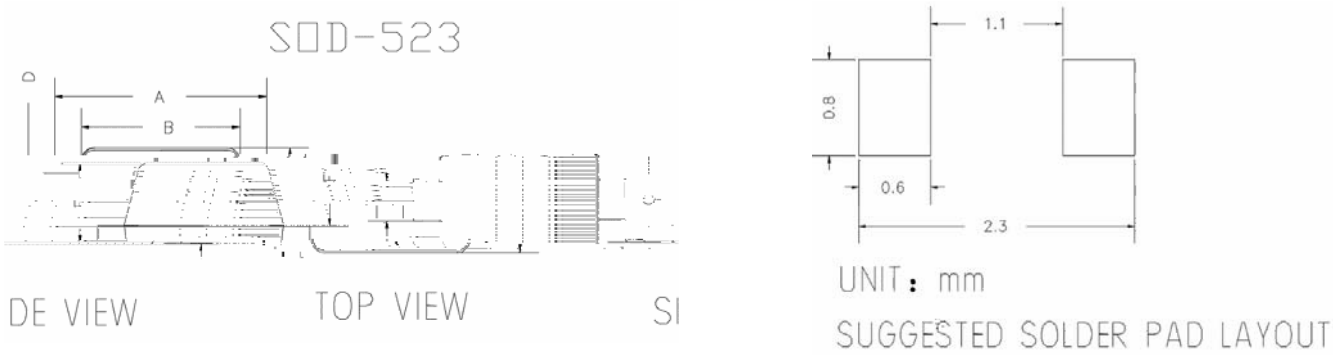


Fig.4: Reverse Characteristics



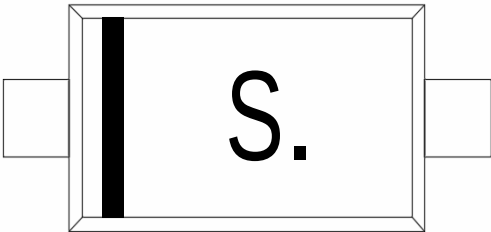


vOutline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.900	0.928	22.86	23.70
D	0.850	0.910	21.59	23.18
E	0.200	0.202	5.08	5.13
F	0.020	0.028	0.51	0.71

yMarking Information



Note:

- 1 . All marking is at middle of the product body
- \$OO PDUNLQJ LV LQ ODVHU PDUNLQJ
- %RG\ FRORU %ODFN



RB521S-40Q

Disclaimer

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 otherwise.

The product listed herein is designed to be used with automotive electronics.
E D U H Q R W G H V L J Q P H G U R D O X V H L H Q V D Y L
V X V W D L Q L Q J R U R U O D V D R Q H R Q J M W M E H K D B V S B Q W X E H O L W \ R U O L D E L O L W X F R U D Q \
L P S U R S H U X V H R I V D O H

7 K L V S X E O L F D W L R Q S V O S F H U W I D G I V L Q U R U P D X W L S R Q L S G H Y R U X D G G L W L R Q D O L Q W R U P D W L R
K W W V Z Z \ D Q J M L H R R P R Q V X O W \ R X U Q H D U H V W < D Q J M L W M I D Q V D I O H V R I L F H I R U I X U W