



Small Signal Schottky Diode

Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- V_R 30V
- I_{FAV} 200mA
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- For low-loss, fast-recovery, meter protection, bias isolation and clamping application
- Low Forward Voltage Drop

Mechanical Data

Case: SOD523

Terminals: $^\circ$ ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	V		30
Average forward current	I_{DFC}		-55 to $+125$	

Storage temperature range	T_{stg}	$^\circ C$		-55 to $+150$
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Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	CONDITIONS	Min	Typ	Max
Forward Voltage	V_F	V	$I_F=0.1mA$		0.20	0.24
			$I_F=1mA$		0.26	0.32
			$I_F=10mA$		0.33	0.4
			$I_F=30mA$		0.40	0.5
			$I_F=100mA$		0.50	1.0
Reverse Current	I_R	μA	$V_R=25V$		0.35	2
Reverse Breakdown Voltage	V_{BR}	V	$I_R=100\mu A$	30	47	
Typical Junction Capacitance	C_J	pF	V_R			



Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54XV2Q	F2	Approximate 0.002	8000	80000	320000	7" reel

Characteristics (Typical)

Fig.1: $P_D - T_A$

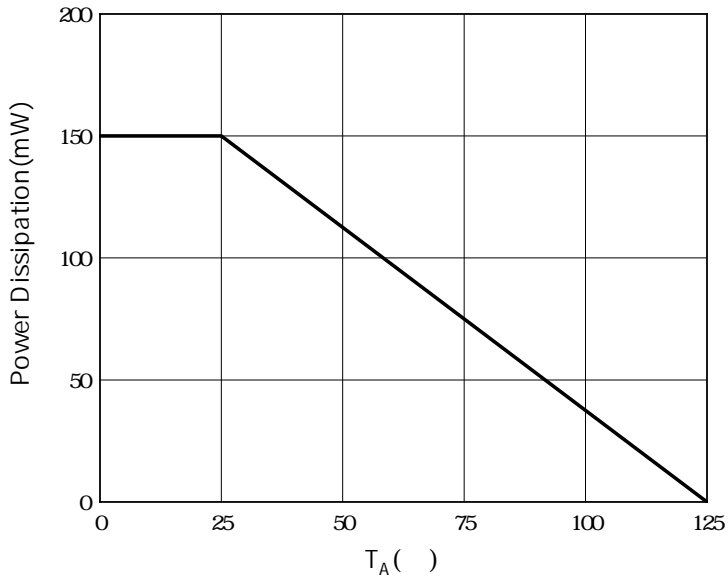


Fig.2: Capacitance Characteristics

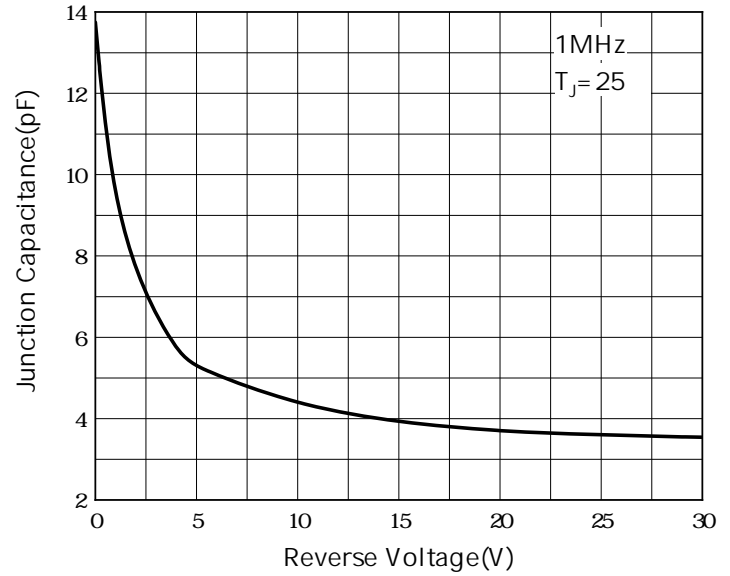
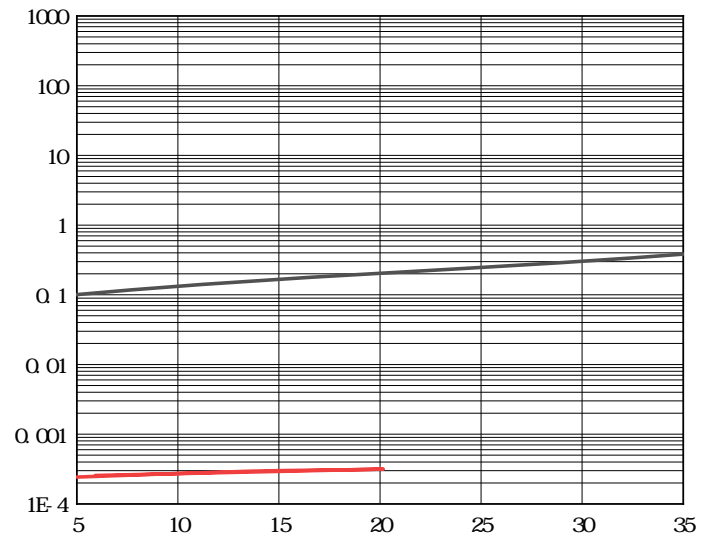
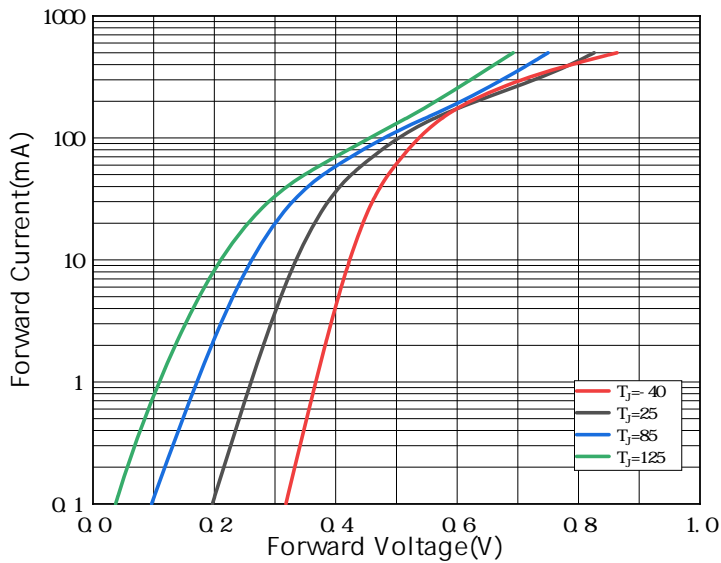
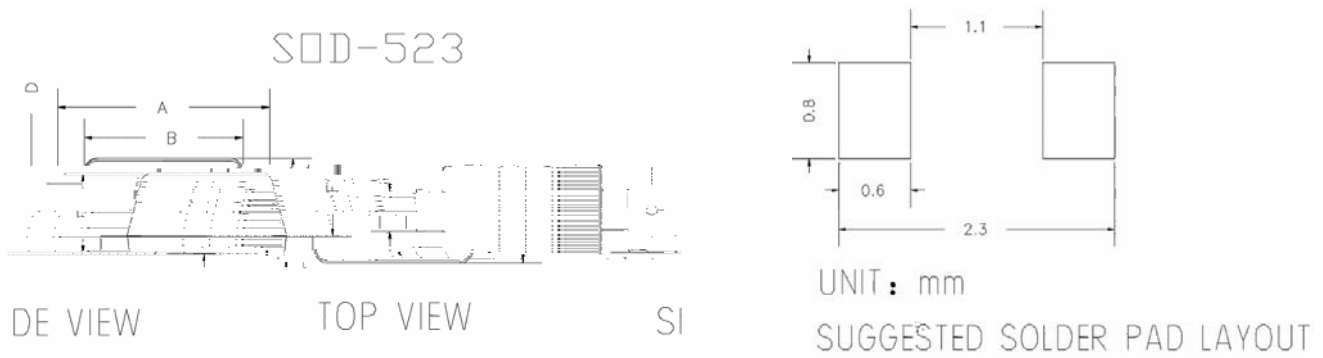


Fig.3: Forward Characteristics

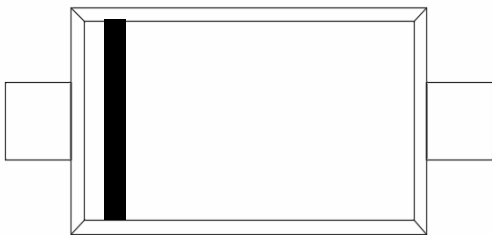


Outline Dimensions



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	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.028	0.035	0.700	0.900

Marking Information



Note:

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



Disclaimer

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