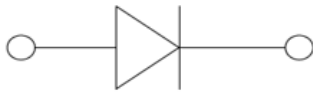


Small Signal Schottky Rectifier



Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- V_R 40V
- I_{FAV} 0.5A
- For Surface Mount Application
- Part no. with suffix "Q" means AEC-Q101 qualified

Mechanical Data

- Case: SOD323
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end
- Marking: 4

SOD323

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	V		40
DC Blocking Voltage	V_R	V		40
Average Forward Current	I_{FAV}	A		0.5
Peak Forward Surge Current	I_{FSM}	A	8.3ms, half sine	5.5
Power Dissipation	P_{tot}	mW		250
Maximum Junction Temperature	T_j	$^\circ\text{C}$		-55 to +125
Storage Temperature Range	T_{stg}	$^\circ\text{C}$		-55to +150

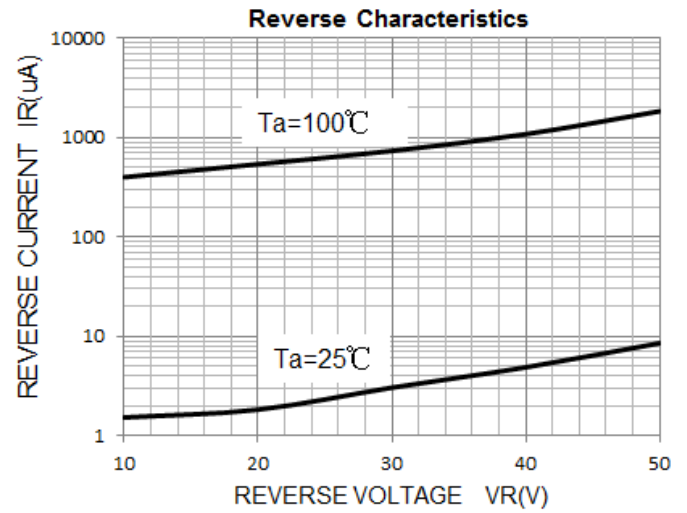
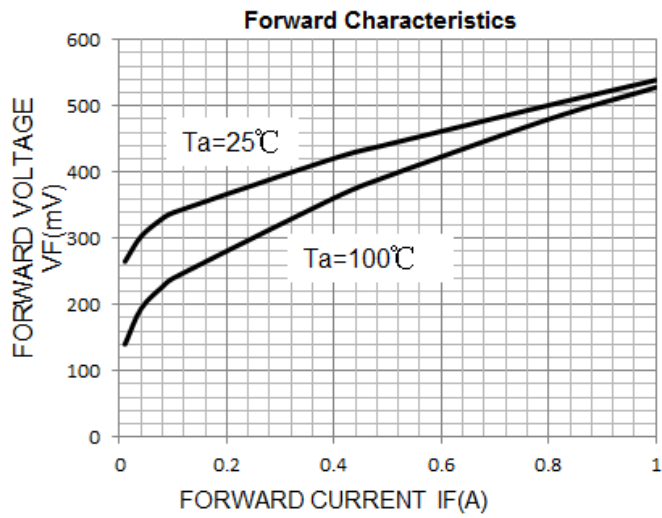
■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Breakdown Voltage	V_R	V	$I_R=20\mu\text{A}$	40		
Forward Voltage	V_F	V	$I_F=0.5\text{A}$, $T_A=25^\circ\text{C}$			0.55
Reverse Leakage Current	I_R	μA	$V_R=40\text{V}$			80
Typical Junction Capacitance	C_J	pF	$V_R=4\text{V}$, $f=1\text{MHz}$			30

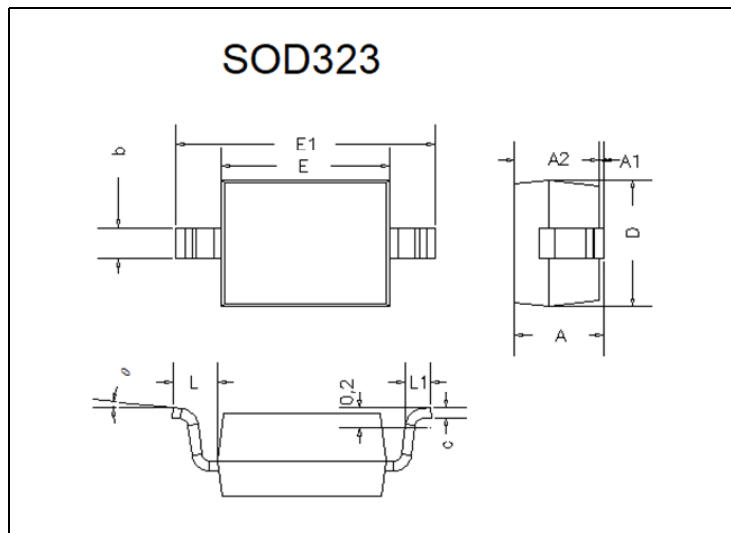
■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0540WSQ	F2	Approximate 0.004	3000	30000	120000	7" reel

■ Characteristics(Typical)

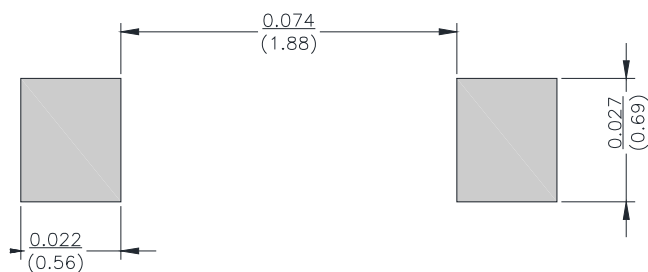


■ Outline Dimensions



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	-	0.039	-	1.00	
A1	0.000	0.004	0.00	0.10	
A2	0.031	0.035	0.80	0.90	
b	0.010	0.016	0.25	0.40	
c	0.003	0.007	0.08	0.17	
D	0.047	0.055	1.20	1.40	
E	0.063	0.071	1.60	1.80	
E1	0.098	0.106	2.50	2.70	
L	0.019REF		0.475REF		
L1	0.008	0.016	0.20	0.40	
θ	0°	8°	0°	8°	

■ Soldering Footprint



Unit: $\frac{\text{inch}}{\text{mm}}$



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