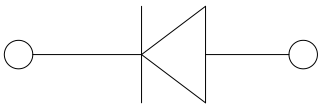
Schottky Rectifier



Features

- VR 40V
- I_FAV 0.5A
- For Surface Mount Application
- Moisture Sensitivity Level 1

Mechanical Data

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

■ Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	V		40
DC Blocking Voltage	V_R	V		40
Peak forward surge current	I_{FSM}	A	8.3ms, half sine	5.5
Average forward current	I_{FAV}	A		0.5
Power dissipation	P_{tot}	mW		250
Maximum junction temperature	T_j	℃		-55 to +125
Storage temperature range	T_{stg}	℃		-55to +150

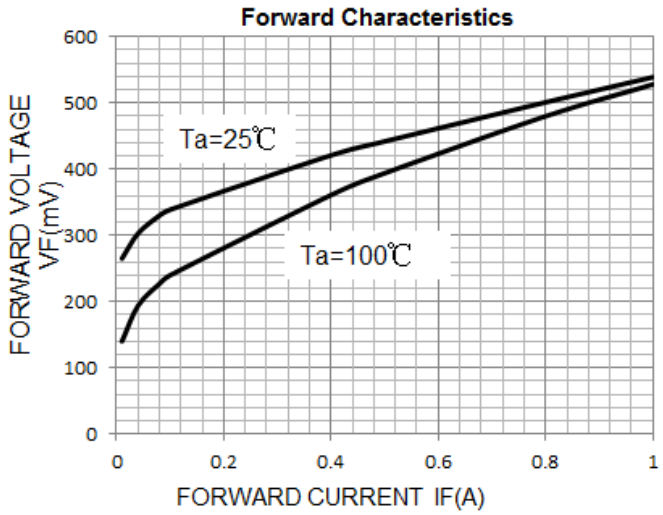
■ Ordering Information (Example)

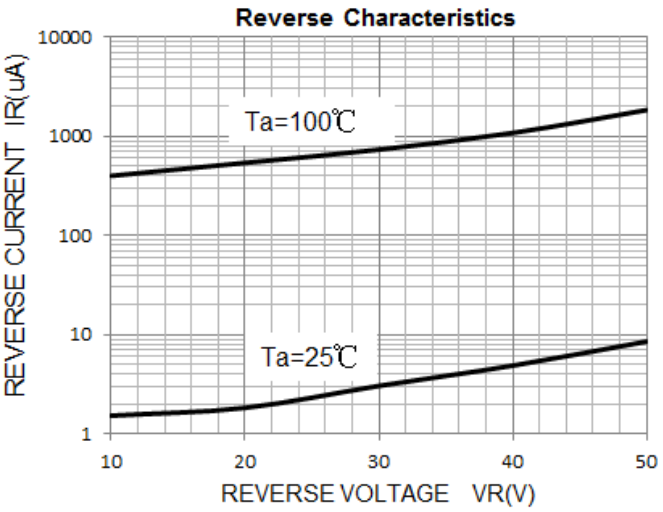
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0540WS	F2	Approximate 0.011	3000	30000	120000	7” reel

■ Electrical Characteristics (Ta=25℃ Unless otherwise specified)

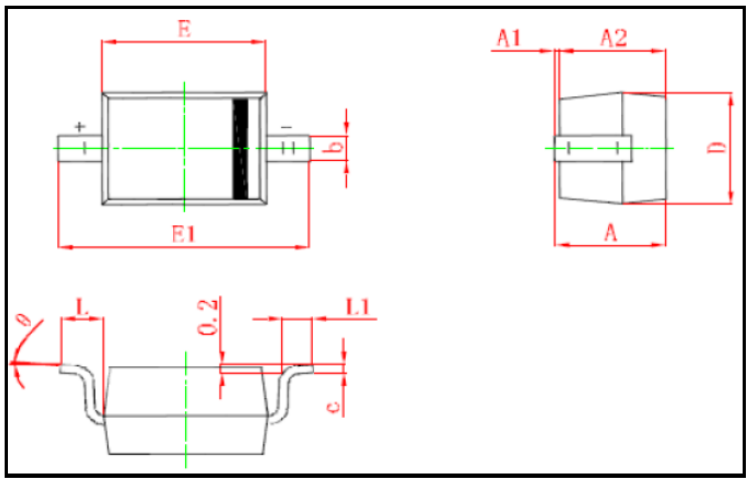
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	V_R	V	I_R=20uA	40		
Forward Voltage	V_F	V	I_F=0.5A, T_A=25℃			0.55
Reverse Leakage Current	I_R	uA	V_R=40V			80
Typical Junction Capacitance	C_J	pF	V_R=4V,f=1MHz			30

■ Characteristics (Typical)



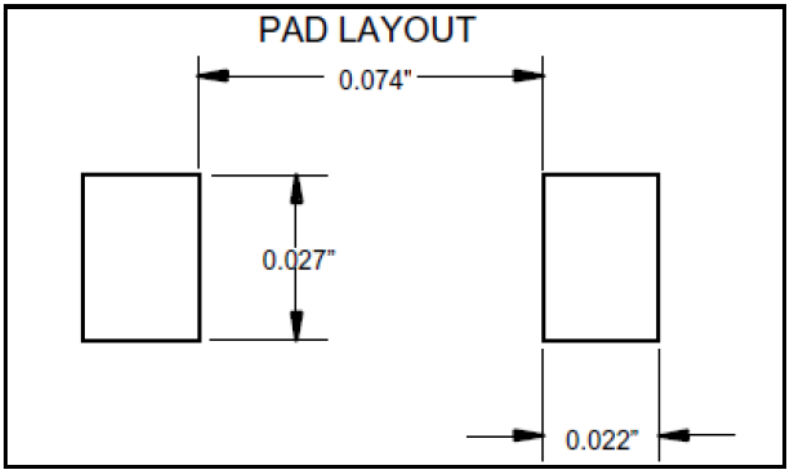


■ Outline Dimensions



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

■ Soldering Footprint



Unit：inches

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