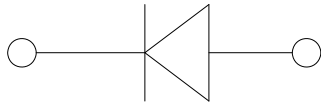


## Schottky Rectifier



### Features

- $V_R$  40V
- $I_{FAV}$  0.5A
- For Surface Mount Application
- Moisture Sensitivity Level 1

### Mechanical Data

- **Package:** SOD-323
- **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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V		40
Reverse Voltage	$V_R$	V		40
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	A	8.3ms, half sine	5.5
Average forward current	$I_{FAV}$	A		0.5
Power dissipation	$P_D$	mW		250
Junction temperature	$T_J$	°C		-55 to +125
Storage temperature range	$T_{stg}$	°C		-55 to +150

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

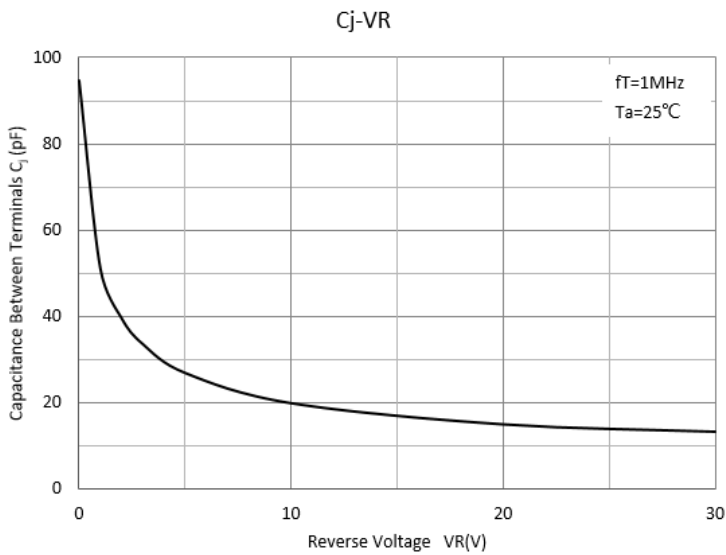
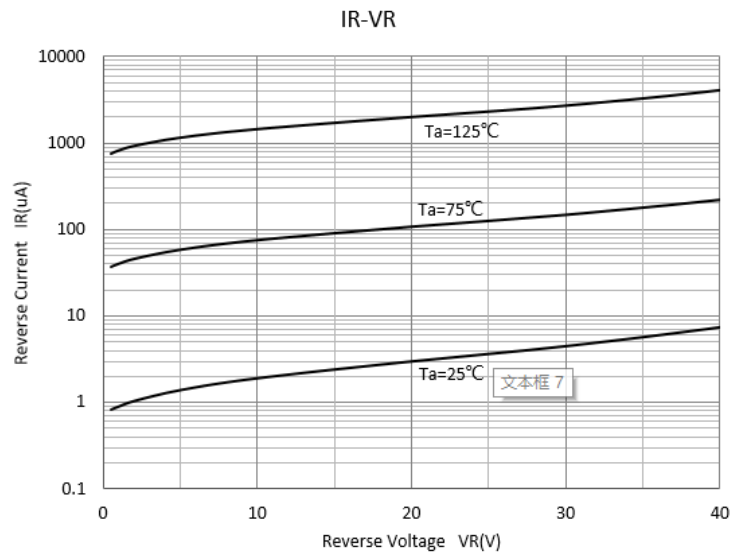
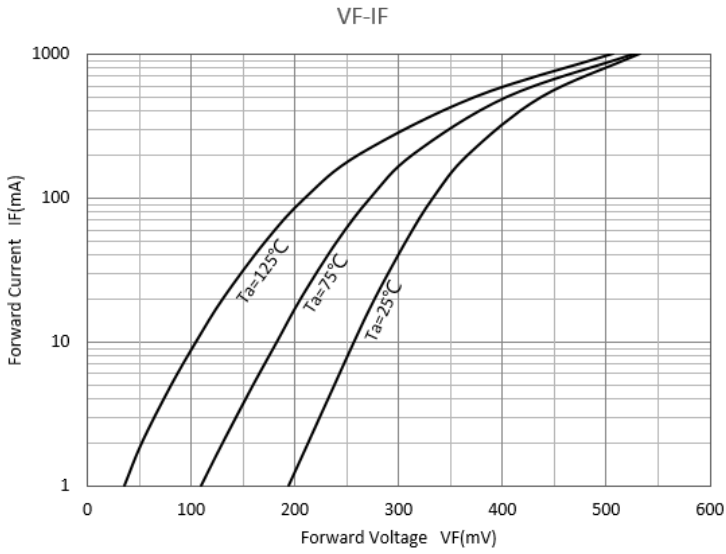
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Breakdown Voltage	$V_R$	V	$I_R=20\mu A$	40		
Forward Voltage	$V_F$	V	$I_F=0.5A, T_A=25^\circ C$			0.55
Reverse Leakage Current	$I_R$	$\mu A$	$V_R=40V$			80
Typical Junction Capacitance	$C_J$	pF	$V_R=4V, f=1MHz$			30

### ■ 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 0.004	3000	30000	120000	7" reel



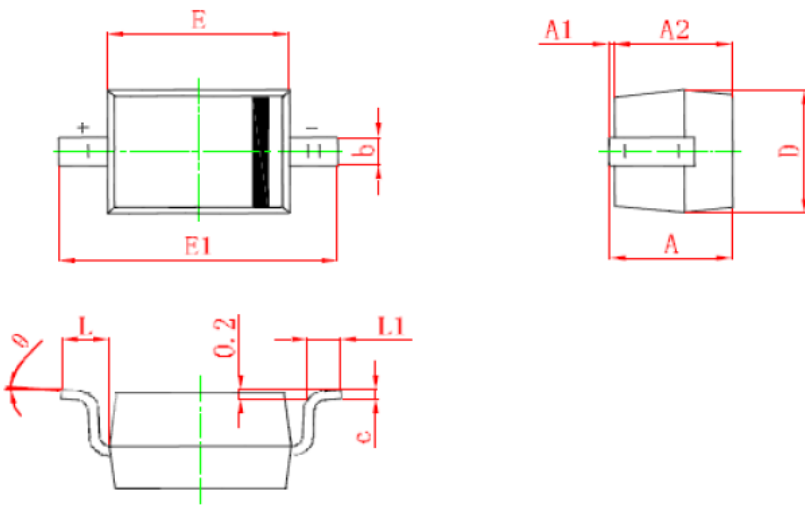
## ■ Characteristics (Typical)





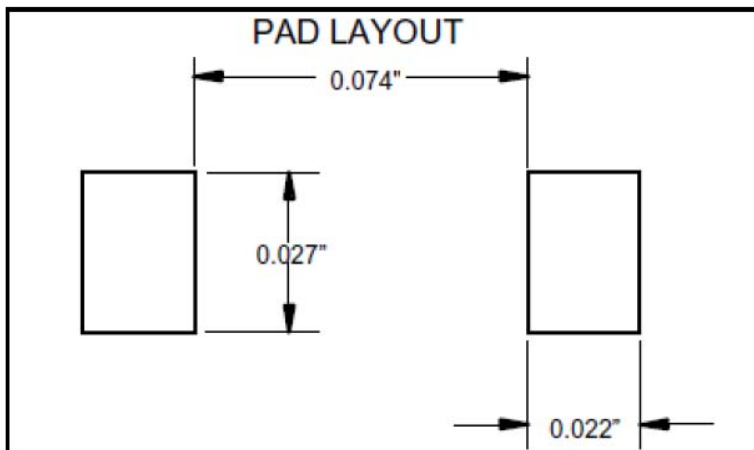
# B0540WS

## ■ SOD-323 Package Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
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°

## ■ SOD-323 Soldering Footprint



Unit: inches



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