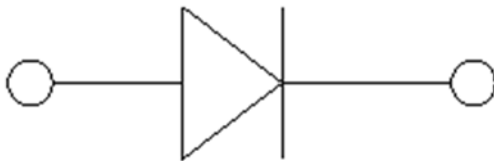


## Schottky Barrier Rectifier



### Features

- $V_R$  40V
- $I_F$  200mA

### Typical Applications

- Low Forward Voltage Drop

### 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:** 43

### ■ 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	$I_R=10\mu A$	40
Average forward current	$I_F$	mA		200
Power Dissipation	$P_D$	mW		200
Maximum junction temperature	$T_j$	°C		125
Storage temperature range	$T_{slg}$	°C		-55 to +150

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

PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Forward voltage	$V_{F1}$	V	$I_F=1mA$ ,	-	0.38
	$V_{F2}$	V	$I_F=40mA$ ,	-	1
Reverse current	$I_R$	nA	$V_R=30V$	-	200
Breakdown voltage	$V_{(BR)}$	V	$I_R=10\mu A$	40	-
Diode capacitance	$C_D$	pF	$V_R=0V, f=1MHz$		5
Reverse Recovery Time	$T_{RR}$	ns	$I_F=I_R=10mA, R_L=100\Omega, I_R=1mA$		5

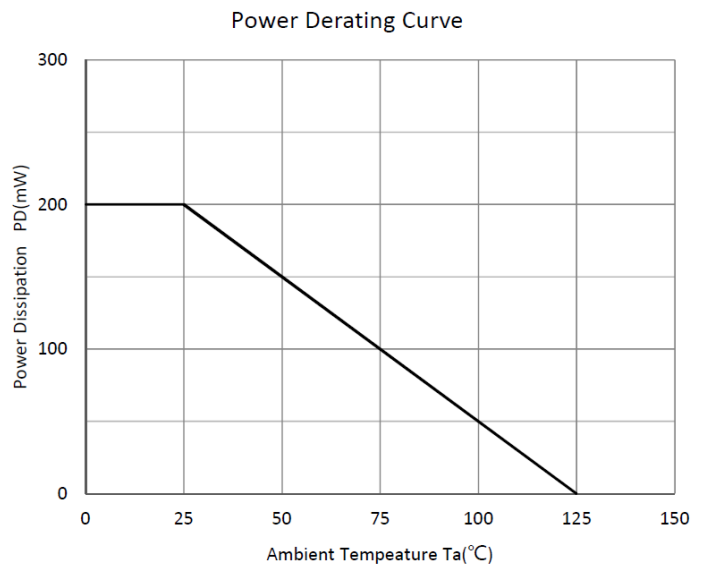
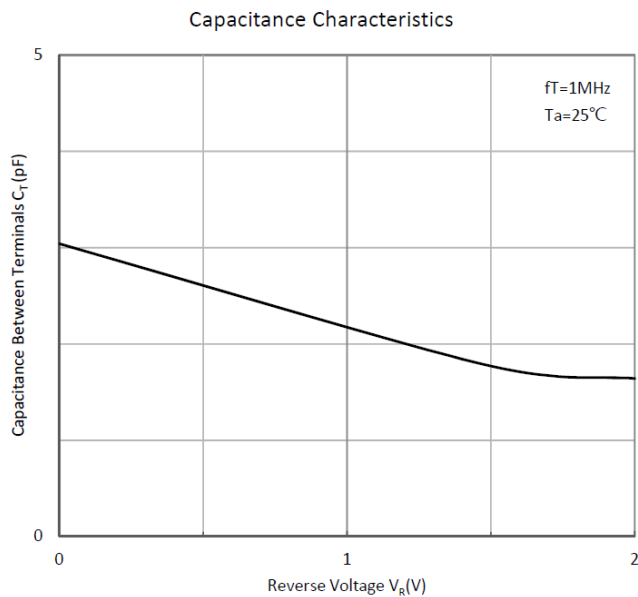
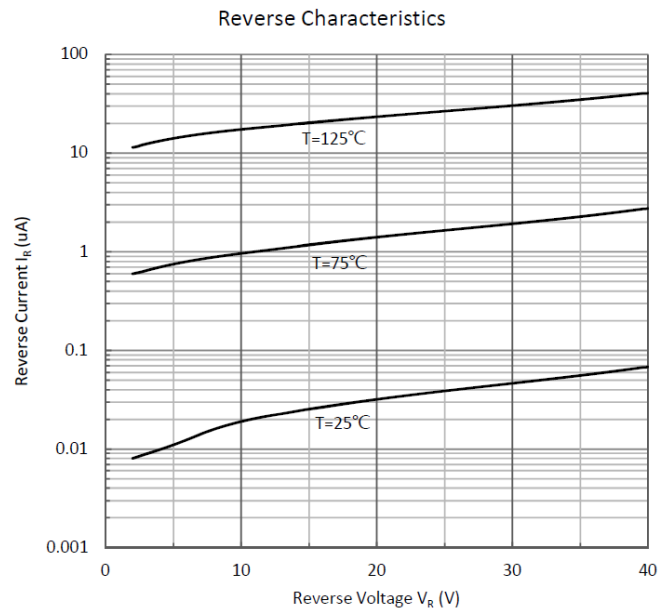
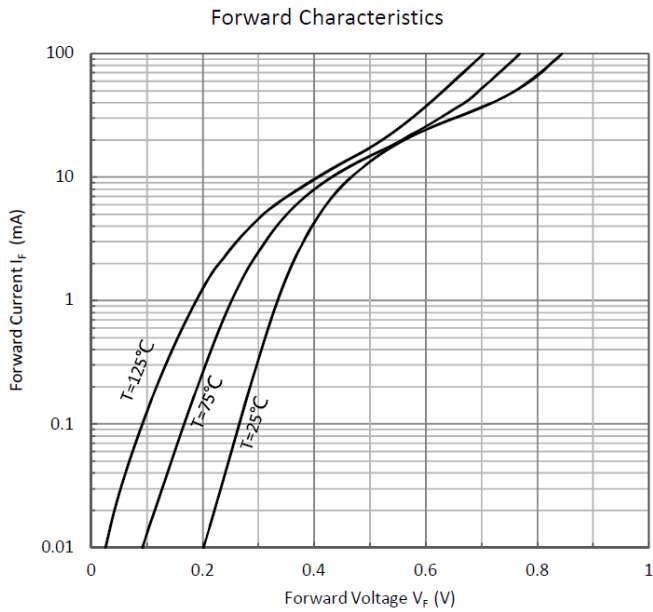


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## Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS40WS	F2	Approximate 0.004	3000	30000	120000	7" reel

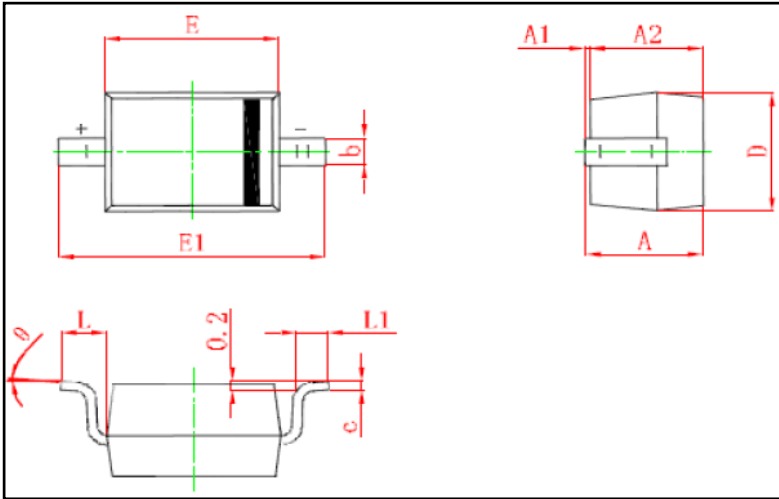
## Characteristics (Typical)





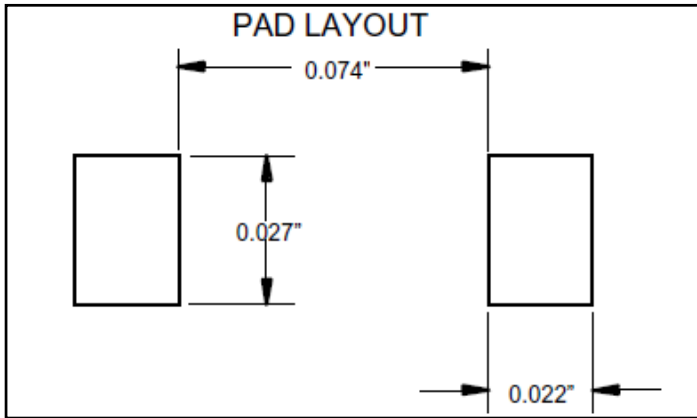
# BAS40WS

## ■ 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
$\theta$	0°	8°

## ■ SOD-323 Soldering Footprint



Unit: inches



# BAS40WS

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