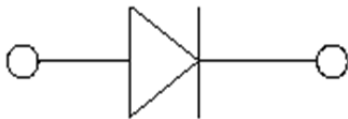


## Schottky Barrier Rectifier



### Features

- $V_R$  30V
- $I_{FAV}$  0.5A
- Extremely Low Thermal Resistance
- For Surface Mount Application and High Current Capability
- 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:** SE

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V		30
Reverse voltage	$V_R$	V	$I_R=0.1\text{mA}$	30
Peak forward surge current	$I_{FSM}$	A	$t_p=8.3\text{ms}$ , half sine	5
Average forward current	$I_{FAV}$	A	$T_c=90^\circ\text{C}$	0.5
Power Dissipation	$P_D$	mW		250
Maximum junction temperature	$T_j$	$^\circ\text{C}$		-55 to +125
Storage temperature range	$T_{stg}$	$^\circ\text{C}$		-55 to +150

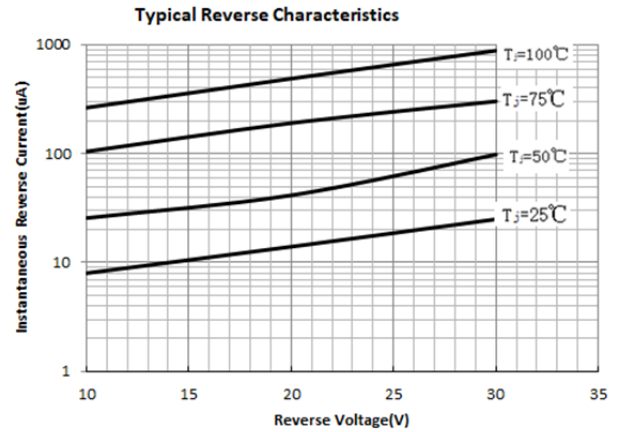
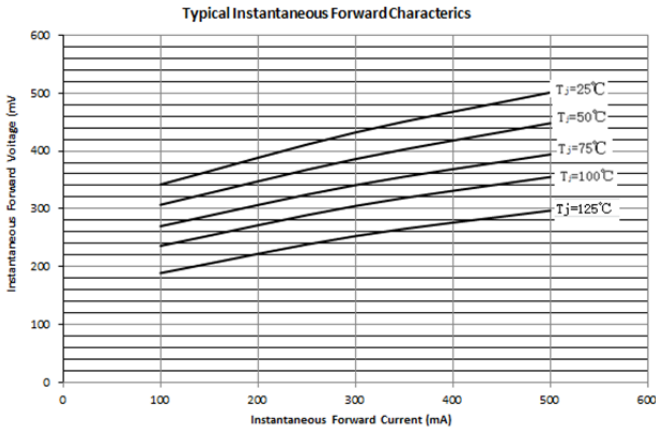
### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	$V_F$	V	$I_F=0.5\text{A}$ , $T_j=25^\circ\text{C}$	0.55
Maximum Reverse current	$I_R$	mA	$V_R=30\text{V}$	0.1
Minimum Breakdown voltage	$V_{(BR)}$	V	$I_R=0.1\text{mA}$	30
Typical Diode capacitance	$C_D$	pF	$V_R=4\text{V}$ , $f=1\text{MHz}$	30

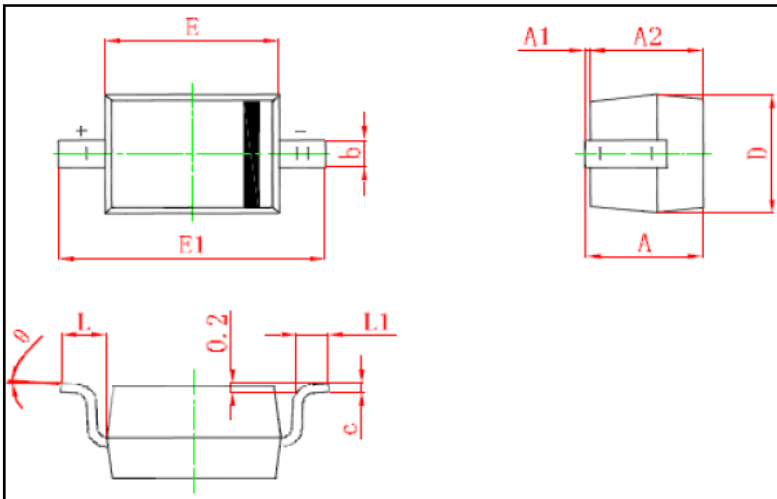
### ■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0530WS	F2	Approximate 0.004	3000	30000	120000	7" reel

## ■ Characteristics (Typical)

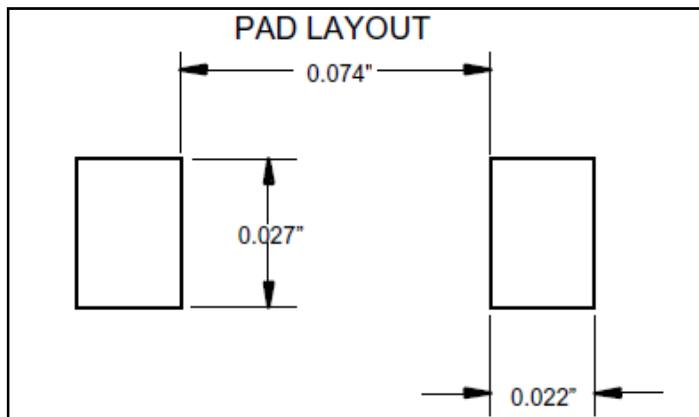


## ■ Outline Dimensions



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

## ■ Soldering Footprint



Unit: inches



## B0530WS

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