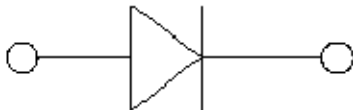


## Schottky Barrier Diode



### Features

- $V_R$  30V
- $I_F$  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:** B

### ■Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	$P_D$	mW	$T_{amb} \leq 25\text{ }^{\circ}\text{C}$	200
Storage Temperature	$T_{STG}$	$^{\circ}\text{C}$		-40 to +125
Junction Temperature	$T_J$	$^{\circ}\text{C}$		125
DC Reverse Voltage	$V_R$	V	$I_R = 500\mu\text{A}$	30
Average Rectified Forward Current	$I_{FAV}$	mA		200
Peak Forward Surge Current	$I_{FSM}$	A	8.3ms single half sine-wave	1

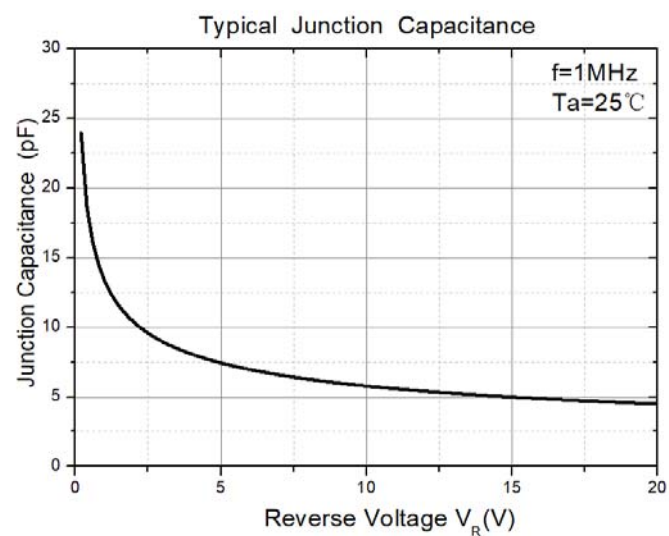
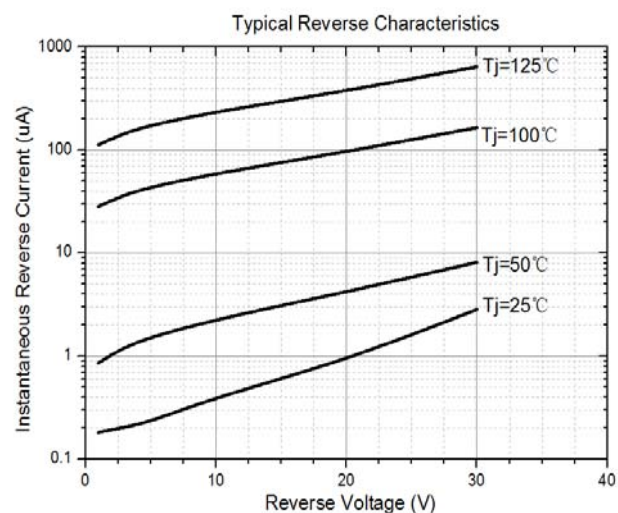
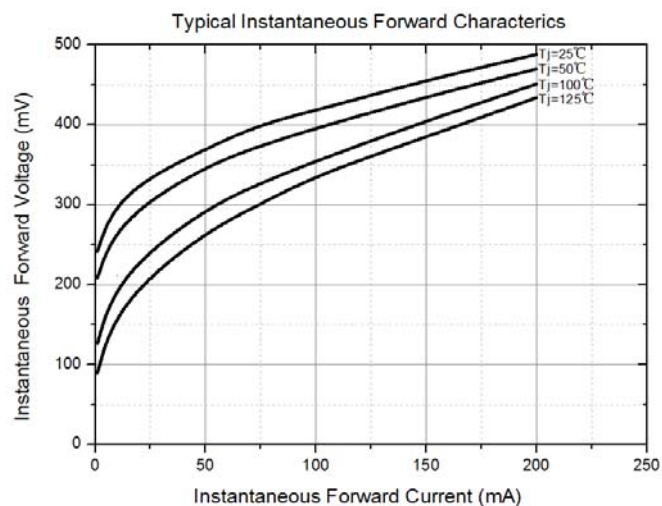
### ■Electrical Characteristics ( $T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	$V_R$	V	$I_R = 500\mu\text{A}$	30	-
Forward Voltage	$V_F$	V	$I_F = 200\text{mA}$	-	0.6
Reverse Leakage Current	$I_R$	$\mu\text{A}$	$V_R = 10\text{V}$	-	1

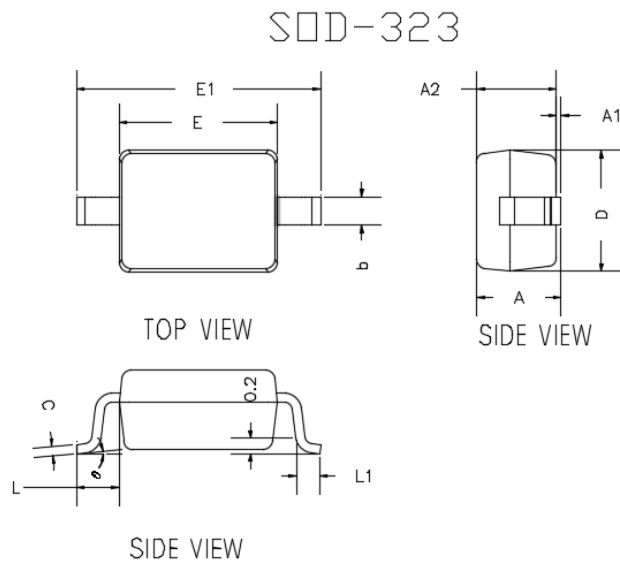
## ■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB530V-30	F2	Approximate 0.0048	3000	30000	120000	7" reel

## ■Characteristics(Typical)

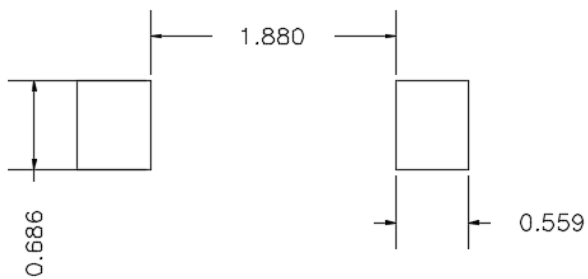


## ■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

## ■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

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