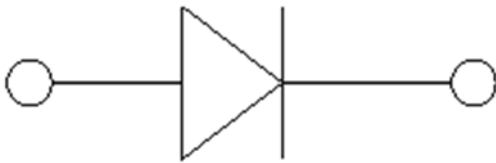


Schottky Barrier Rectifier



Features

- V_R 20V
- I_{FAV} 0.5A
- 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:** R2

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		20
Reverse voltage	V_R	V	$I_R=0.2mA$	20
Average forward current	I_{FAV}	A		0.5
Power Dissipation	P_D	mW		200
Maximum junction temperature	T_j	°C		125
Storage temperature range	T_{stg}	°C		-55 to +150

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

PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Forward voltage	V_F	V	$I_F=0.5A$,	-	0.45
Reverse current	I_R	uA	$V_R=20V$	-	250
Breakdown voltage	$V_{(BR)}$	V	$I_R=0.2mA$	20	-
Diode capacitance	C_D	pF	$V_R=0V, f=1MHz$		170

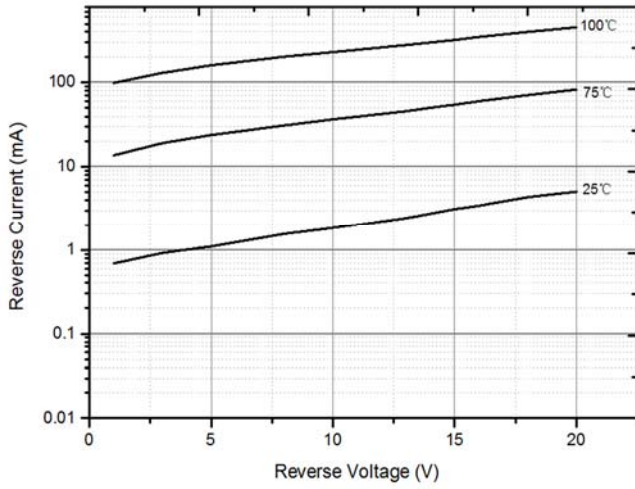
■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0520WS	F2	Approximate 0.004	3000	30000	120000	7" reel

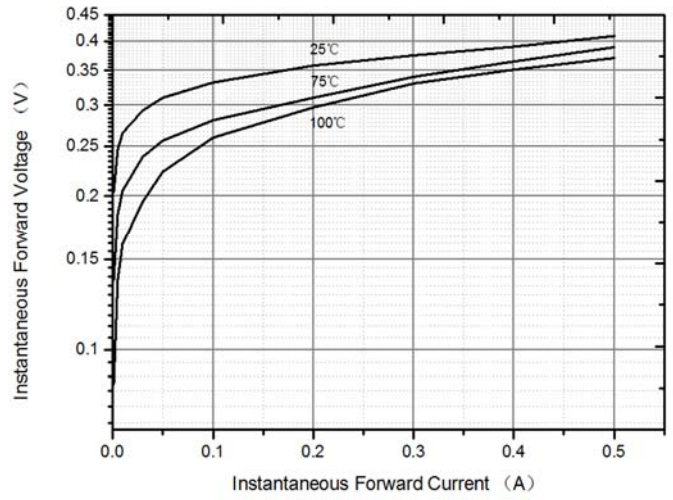


■ Characteristics (Typical)

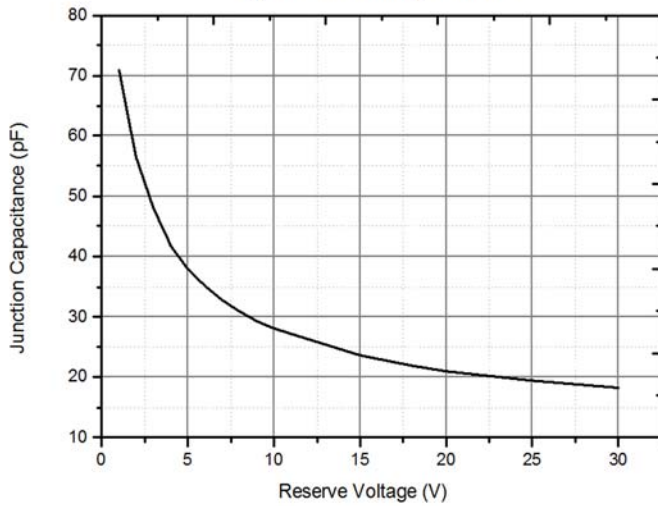
Typical Reverse Characteristics



Typical Instantaneous Forward Characteristics



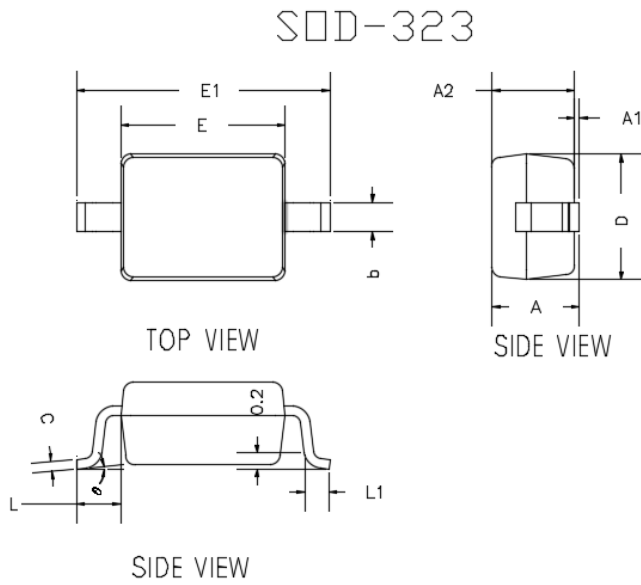
Typical Junction Capacitance





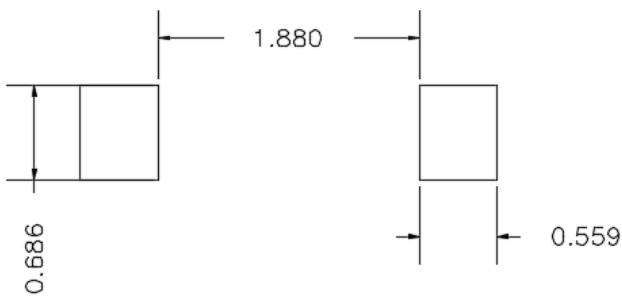
B0520WS

■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
e	0°	8°	0°	8°

■Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



B0520WS

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