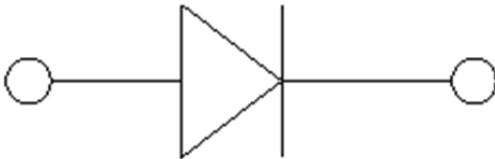


Schottky Barrier Rectifier



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

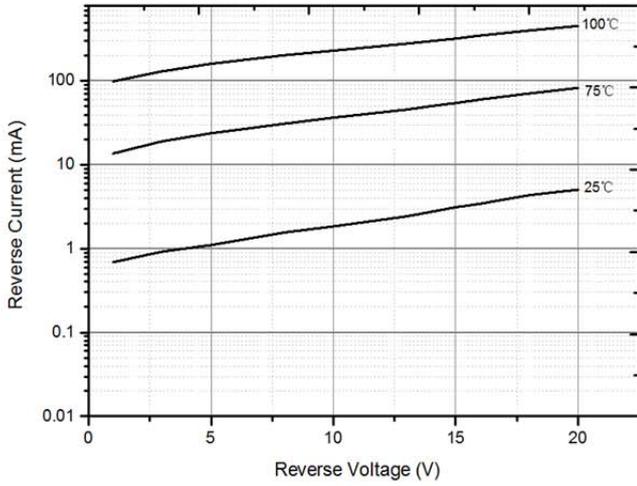
■Ordering Information (Example)

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

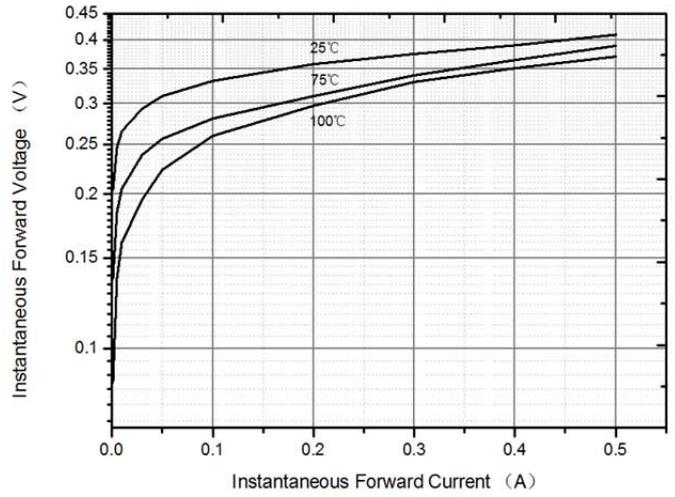


■ Characteristics (Typical)

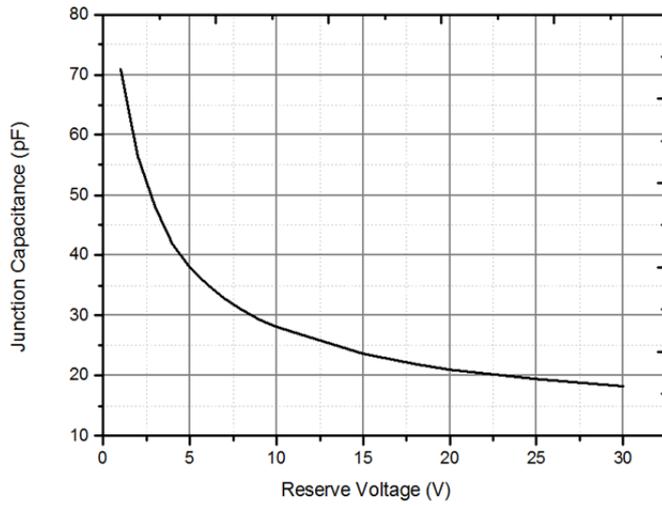
Typical Reverse Characteristics



Typical Instantaneous Forward Characteristics



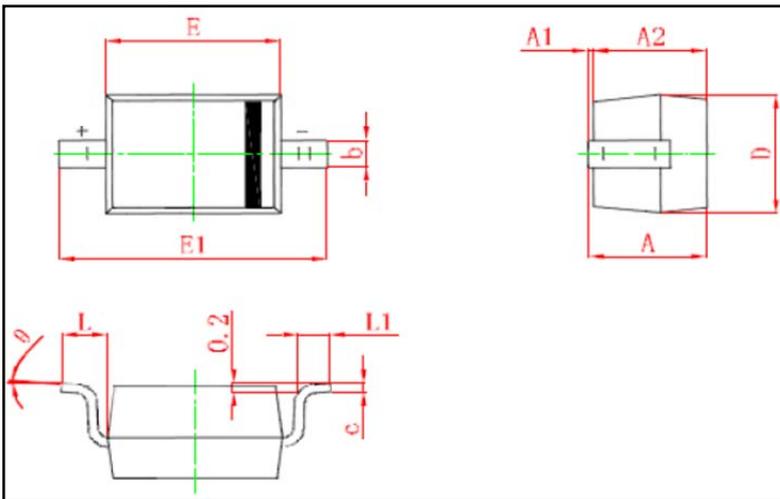
Typical Junction Capacitance





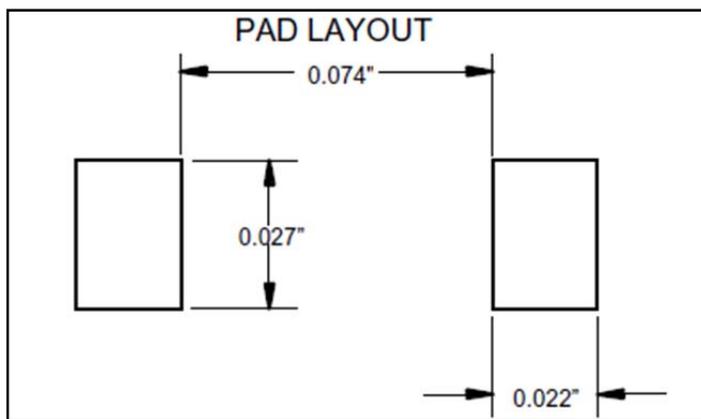
B0520WS

■ Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.300	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



B0520WS

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