



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

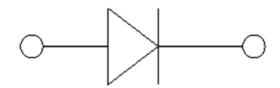
• Package: SOD323

• 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	voltage V _{RRM} V			20
Reverse voltage	V _R	V	I _R =0.2mA	20
Average forward current	I _{FAV}	Α		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 (T_a=25°C Unless otherwise specified)

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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	$V_R=0V$, $f=1MH_Z$		170

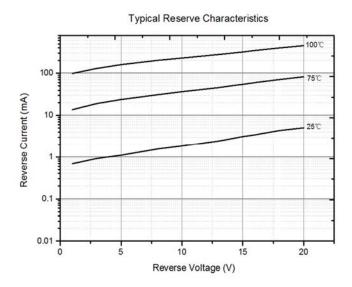
■Ordering Information (Example)

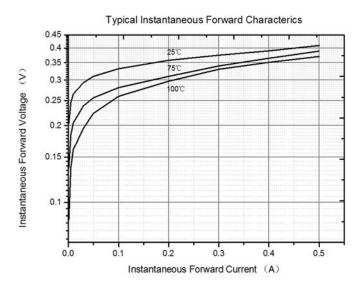
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0520WS	F2	Approximate 0.0048	3000	30000	120000	7" reel

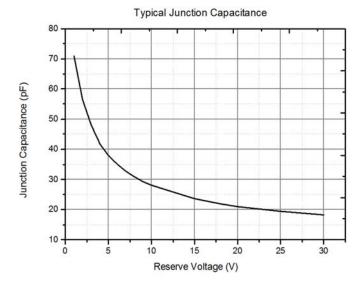




■ Characteristics (Typical)



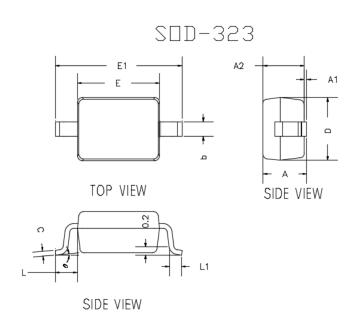






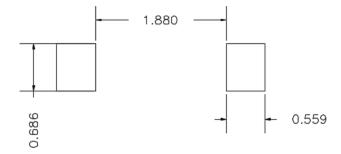


■Outline Dimensions



DIMENSIONS					
DIM	INC	HES	ММ		
	MIN	MAX	MN	MAX	
A		0.0393		1.0000	
A1	0.0000	0.0039	0.0000	0.1000	
A2	0.0314	0.0354	0.8000	0.9000	
lo	0.0098	0.0157	0.2500	0.4000	
С	0.0031	0.0059	0.0800	0.1500	
D	0.0472	0.0551	1,2000	1.4000	
Ε	0.0629	0.0709	1,6000	1.8000	
E1	0.0984	0.1063	2,5000	2.7000	
L	0.018	7TYP	0.475TYP		
L1	0.0098	0.0157	0.250	0.400	
θ	0*	8*	0*	8*	

■Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



B0520WS

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