

B0530WS

Schottky Barrier Rectifier

Features

- V_R 30V
- I_{FAV} 0.5A
- Extremely Low Thermal Resisitance
- 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Repetitive peak reverse voltage	V_{RRM}	٧		30	
Reverse voltage	V _R	V	I _R =0.1mA	30	
Peak forward surge current	I _{FSM}	Α	t _p =8.3ms, half sine	5	
Average forward current	I _{FAV}	Α	T _c =90°C	0.5	
Power Dissipation	P _D	mW		250	
Maximum junction temperature	T _j	°C		-55 to +125	
Storage temperature range	T _{stg}	°C		-55 to +150	

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

Electrical characteristics (18 20 cm occ chief med opening)					
PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Maximum Forward voltage	V _F	٧	I _F =0.5A, T _J =25°C	0.55	
Maximum Reverse current	I _R	mA	V _R =30V	0.1	
Minimum Breakdown voltage	V _(BR)	V	I _R =0.1mA	30	
Typical Diode capacitance	C _D	pF	$V_R=4V$, $f=1MH_Z$	30	

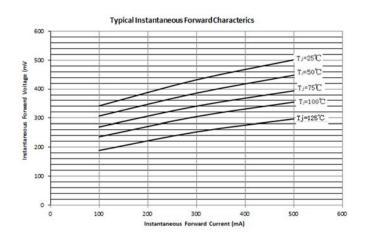
■Ordering Information (Example)

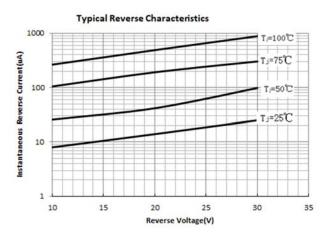
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
B0530WS	F2	Approximate 0.0048	3000	30000	120000	7" reel



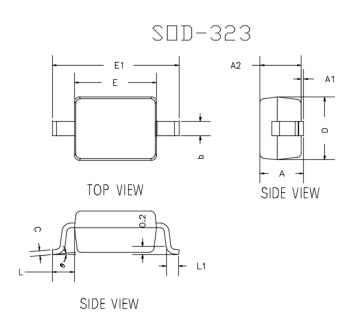
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■ Characteristics (Typical)



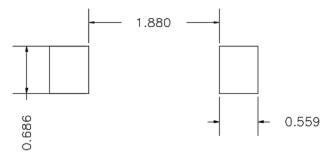


■Outline Dimensions



DIMENSIONS						
DIM	INC	HES	мм			
	MIN	MAX	MN	MAX		
А		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		
El	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



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