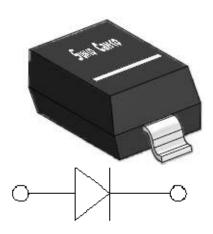


Small Signal Schottky Diode



Features

V_R 20VI_{FAV} 0.5A

Mechanical Data

• Package: SOD-123

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

• Marking: B2

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		20
Non-Repetitive Peak Forward Surge Current	I _{FSM}	А	t _p =8.3ms	5.5
Average forward current	I _{FAV}	А		0.5
Power dissipation	P _D	mW		350
Thermal Resistance from junction to ambient	$R_{\theta JA}$	°C/W		285
Junction temperature	T _j	°C		125
Storage temperature range	T _{stg}	℃		-55 to +150

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

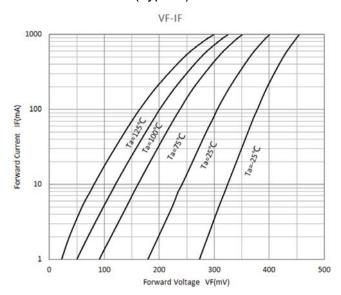
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V _F	V	I _F =0.1A	0.33
		V	I _F =0.5A	0.39
Maximum Reverse current	I _R	uA	V _R =10V	75
		uA	V _R =20V	250
Minimum Breakdown voltage	V_R	V	I _R =0.25mA	20

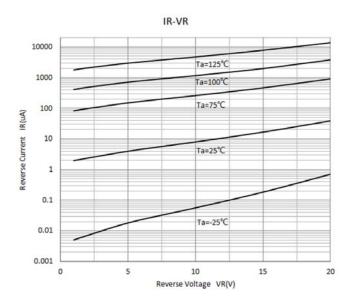


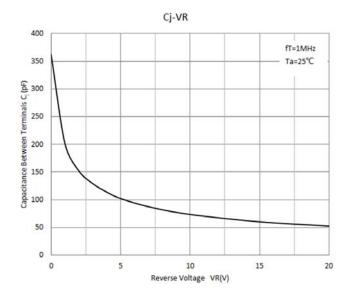
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR0520L	F2	Approximate 0.009	3000	30000	120000	7" reel

■ Characteristics (Typical)

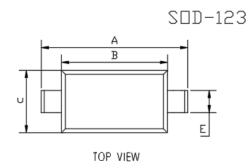






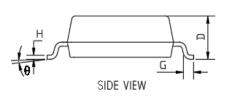


■ Outline Dimensions



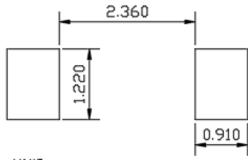


J	- -
SIDE	VIEW



DIMENSIONS					
DIM	INC	HES	ММ		
	MIN	MAX	MN	MAX	
А	0.140	0.152	3.550	3.850	
В	0.100	0.112	2.550	2.850	
С	0.055	0.071	1.400	1.800	
D	0.037	0.053	0.950	1.350	
E	0.020	0.028	0.510	0.710	
G	0.006	0.018	0.150	0.450	
Н	0.003	0.010	0.080	0.250	
J	0.000	0.006	0.000	0.150	
θ	0	8.	0	8°	

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



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