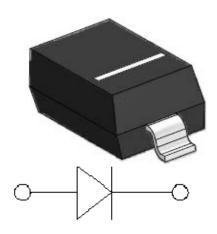




# **Small Signal Schottky Diode**



#### **Features**

V<sub>R</sub> 20VI<sub>FAV</sub> 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 <sub>FSM</sub>	Α	t <sub>p</sub> =8.3ms	5.5
Average forward current	I <sub>FAV</sub>	Α		0.5
Power dissipation	P <sub>D</sub>	mW		350
Thermal Resistance from junction to ambient	$R_{\theta JA}$	°C/W		285
Junction temperature	T <sub>j</sub>	°C		125
Storage temperature range	$T_{stg}$	°C		-55 to +150

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V <sub>F</sub>	V	I <sub>F</sub> =0.1A	0.33
		V	I <sub>F</sub> =0.5A	0.39
Maximum Reverse current	I <sub>R</sub>	uA	V <sub>R</sub> =10V	75
		uA	V <sub>R</sub> =20V	250
Minimum Breakdown voltage	$V_R$	V	I <sub>R</sub> =0.25mA	20

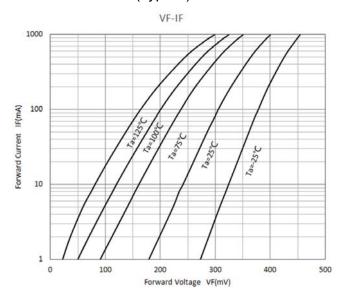


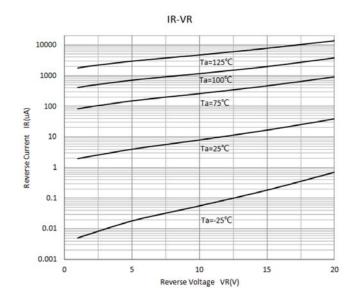
## **MBR0520L**

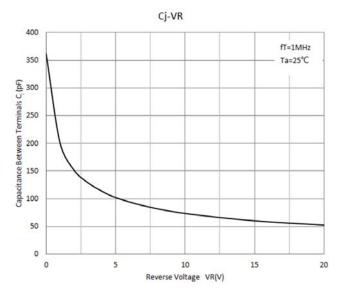
**■Ordering Information** (Example)

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)



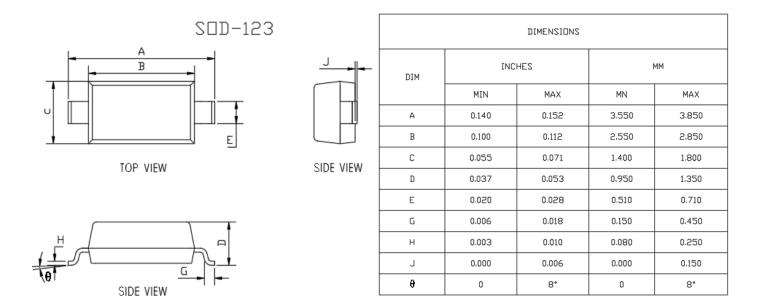




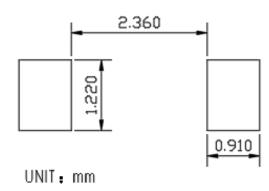




### **■** Outline Dimensions



## ■ Soldering Footprint



SUGGESTED SOLDER PAD LAYOUT



## **MBR0520L**

#### **Disclaimer**

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