

**Plastic-Encapsulate Schottky Barrier Diode**

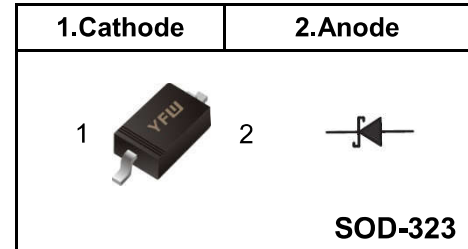
**Features**

- ◆High Current Capability
- ◆Low Forward Voltage Drop
- ◆Low IR

**Mechanical Data**

- ◆SOD-323 Small Outline Plastic Package
- ◆Polarity: Color band denotes cathode end
- ◆Epoxy UL: 94V-0
- ◆Mounting Position: Any

**Pinning**



**Marking Code**

<b>B110WS</b>	<b>R10</b>
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**Maximum Ratings & Thermal Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

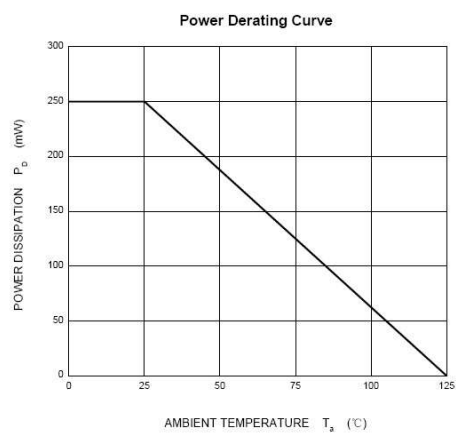
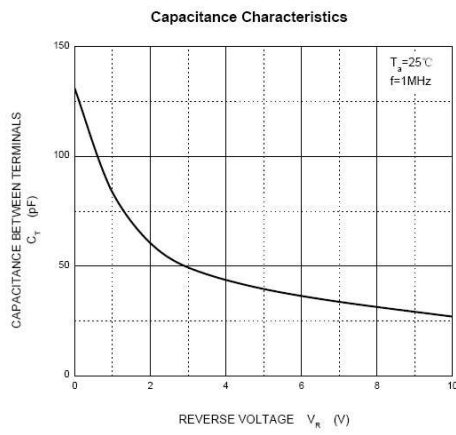
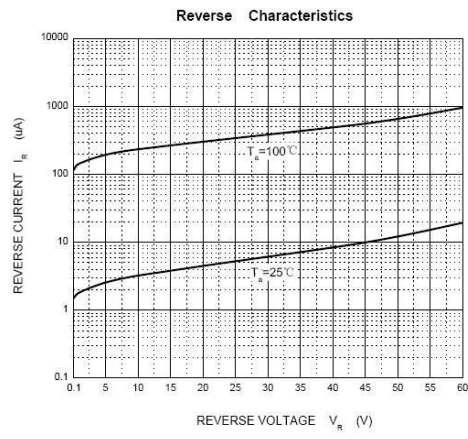
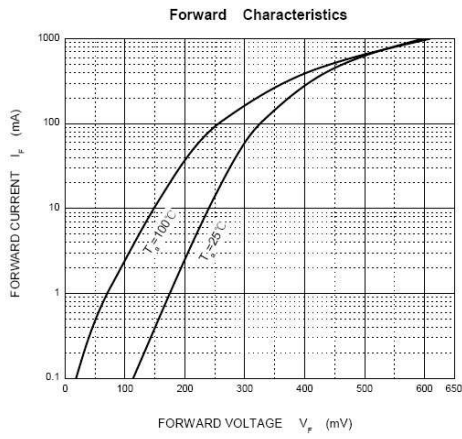
Parameters	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	<b>V<sub>RRM</sub></b>	100	<b>V</b>
Maximum RMS voltage	<b>V<sub>RMS</sub></b>	70	<b>V</b>
Maximum DC blocking voltage	<b>V<sub>DC</sub></b>	100	<b>V</b>
Maximum average forward rectified current	<b>I<sub>FM</sub></b>	1	<b>A</b>
Peak forward surge current 8.3 ms single half sine-wave	<b>I<sub>FSM</sub></b>	15	<b>A</b>
Power Dissipation	<b>P<sub>D</sub></b>	250	<b>mW</b>
Junction temperature	<b>T<sub>j</sub></b>	125	<b>°C</b>
Storage temperature range	<b>T<sub>STG</sub></b>	-55-+150	<b>°C</b>

**Electrical Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Test conditions	Value			Unit
			Min.	Typ.	Max.	
Maximum Reverse Voltage	<b>V<sub>BR</sub></b>	IR=50uA	100			<b>V</b>
Maximum forward voltage	<b>V<sub>F</sub></b>	IF = 1.0A			0.85	<b>V</b>
Maximum reverse current	<b>I<sub>R</sub></b>	VR=100V			5.0	<b>uA</b>

**Characteristic Curves**



**Ordering information**

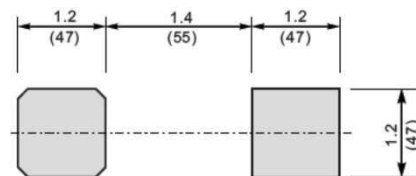
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**

**SOD-323**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

**The recommended mounting pad size**



Unit:  $\frac{\text{mm}}{\text{mil}}$

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