



**SMALL SIGNAL  
SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - 30 Volts

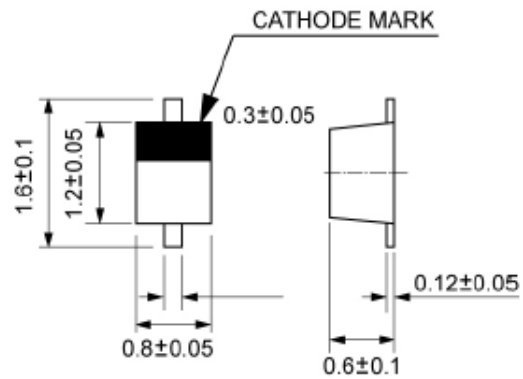
**FEATURES**

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

**MECHANICAL DATA**

- Case : SOD-523
- Polarity : Color band denotes cathode

**SOD-523**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	CTRB520S	CTRB521S	CTRB751S	UNIT
Maximum repetitive peak reverse voltage	VRRM	30	30	30	V
Maximum RMS voltage	VRMS	21	21	21	V
Maximum DC blocking voltage	VDC	30	30	30	V
Maximum average forward rectified current	IF	200	200	30	mA
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	1	1	0.2	A
Maximum instantaneous @IF=200mA CTRB751S @ 1mA	VF	0.6	0.5	0.37	V
Maximum DC Reverse Current ,TA=25°C @VR=10V CTRB751S @VR=30V	IR	1	30	0.5	mA
Operating Temperature Range	TJ	-40 to +125			°C
Storage Temperature Range	TSTG	-40 to +125			°C
Marking Code		B	C	5	