

**Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

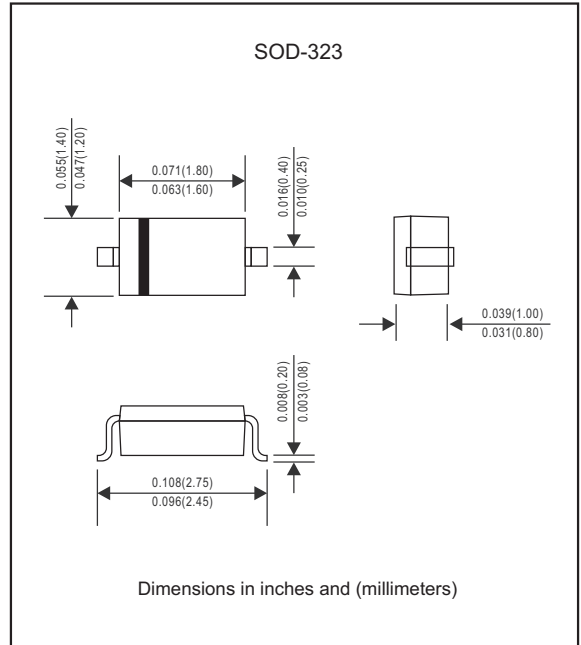
**General Description**

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOD-323 Plastic Package

**Marking**

Type number	Marking code
BAS100CS	R10

**Package outline**



**Maximum Ratings** @ $T_A=25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Limit	Unit
VRRM	Maximum Recurrent Peak Reverse Voltage	100	V
VRMS	Maximum RMS Voltage	70	V
VDC	Maximum DC Blocking Voltage	100	V
IF	Continuous Forward Current	1	A
IFSM	Non-repetitive Peak Forward Surge Current@8.3mS	15	A
Ptot	Total Power Dissipation	250	mW
RθJA	Thermal Resistance From Junction To Ambient	400	°C/W
TJ	Operation Junction Temperature Range	-40~+125	°C
TSTG	Storage Temperature Range	-55~+150	°C

**Electrical Characteristics** @ $T_A=25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
VF	Forward voltage	IF=1A			0.85	V
IR	Reverse voltage leakage current	VR=100V			5.0	μA

Typical Performance Characteristics (T<sub>J</sub> = 25 °C, unless otherwise noted)

