

Main Product Characteristics:

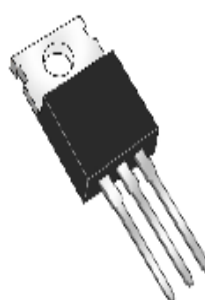
IF	2×10A
VRRM	100V
Tj(max)	150C
Vf(max)	0.8V

Features and Benefits:

- High Junction Temperature
- High ESD Protection, IEC Model $\pm 10\text{Kv}$
- High Forward & Reverse Surge capability

Description:

Schottky Barrier Rectifier designed for high frequency switch model power supplies such as adaptors and DC/DC convertors; this product special design for high forward and reverse surge capability



TO220
SSBR20100CT



TO220F
SSBR20100CTF

Absolute Rating:

Symbol	Characterizes		Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage		100	V
V _{R(RMS)}	RMS Reverse Voltage		70	V
I _{F(AV)}	Average Forward Current	Per diode	10	A
		Per device	20	A
I _{FSM}	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)		180	A
I _{RRM}	Peak Repetitive Reverse Surge Current(Tp=2us)		0.5	A
T _J	Maximum operation Junction Temperature Range		-50~150	℃
T _{stg}	Storage Temperature Range		-50~150	℃

Thermal Resistance

Symbol	Characterizes		Value	Unit
R _{θJC}	Maximum Thermal Resistance Junction To Case	TO220	2	°C/W
R _{θJC}		TO220F	4	°C/W

Electrical Characterizes @ $T_A=25^\circ\text{C}$ unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
V_R	Reverse Breakdown Voltage	100			V	$I_R=0.5\text{mA}$
V_F	Forward Voltage Drop			0.8	V	$I_F=10\text{A}, T_J=25^\circ\text{C}$
				0.75		$I_F=10\text{A}, T_J=125^\circ\text{C}$
I_R	Leakage Current			0.1	mA	$V_R=100\text{V}, T_J=25^\circ\text{C}$
				5		$V_R=100\text{V}, T_J=125^\circ\text{C}$

I-V Curves;

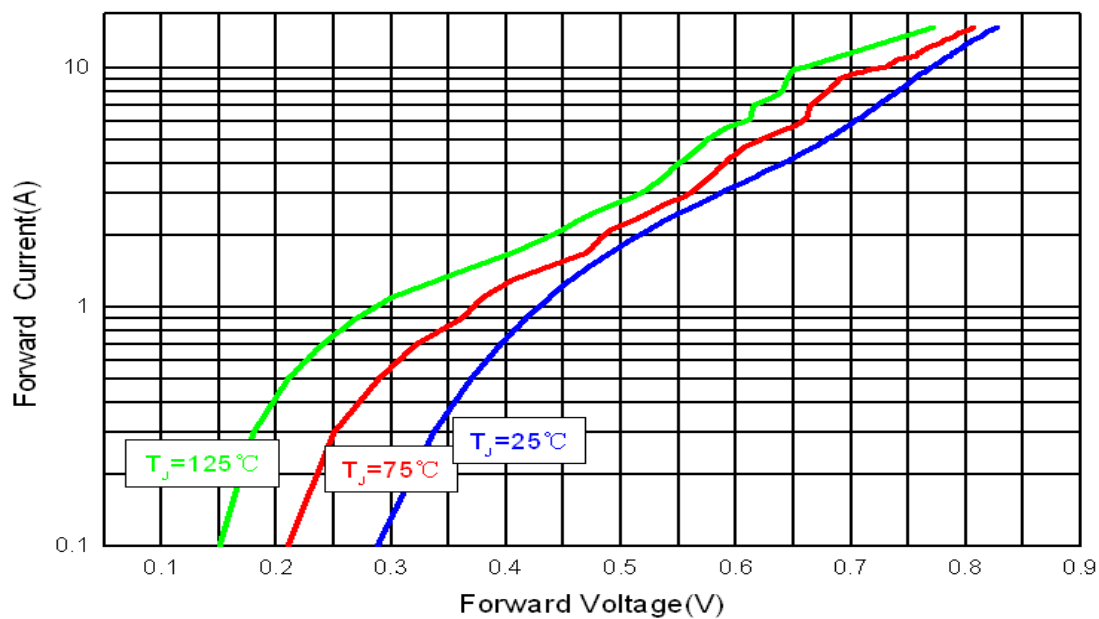


Figure 1: Typical Forward Characteristics

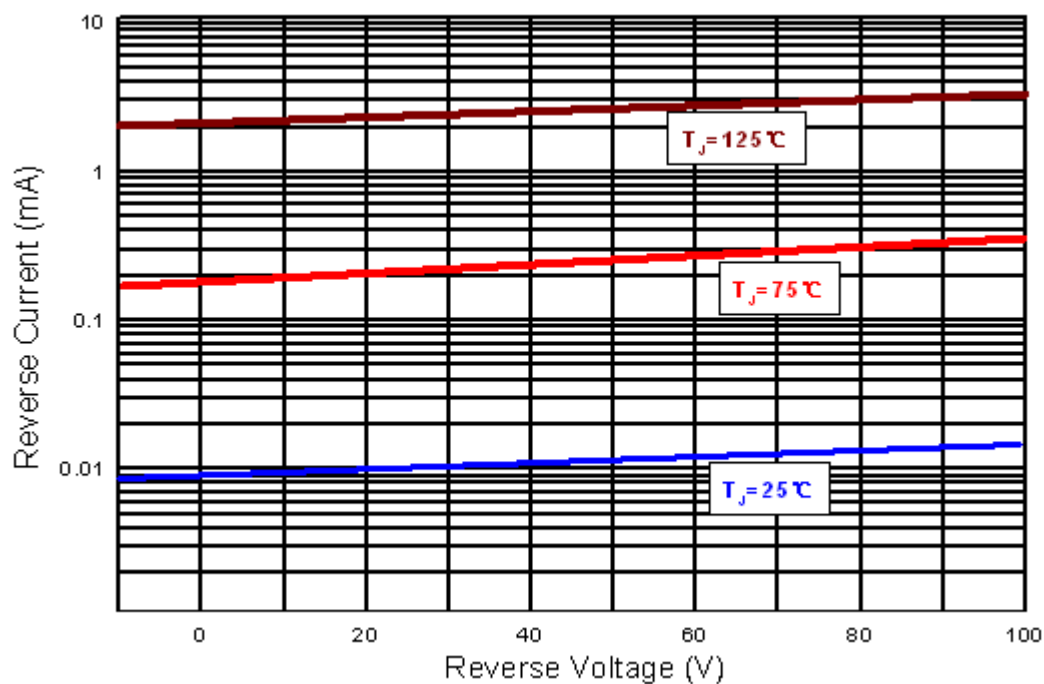
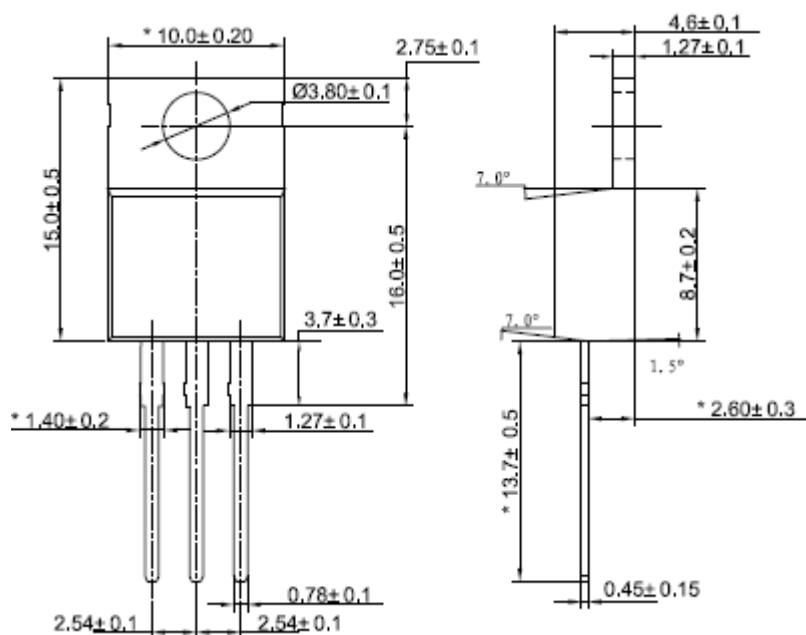


Figure 2: Typical Reverse Characteristics

Mechanical Data:

TO220



TO220F:

