

## SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 60.0 Volts  
FORWARD CURRENT - 20.0 Amperes

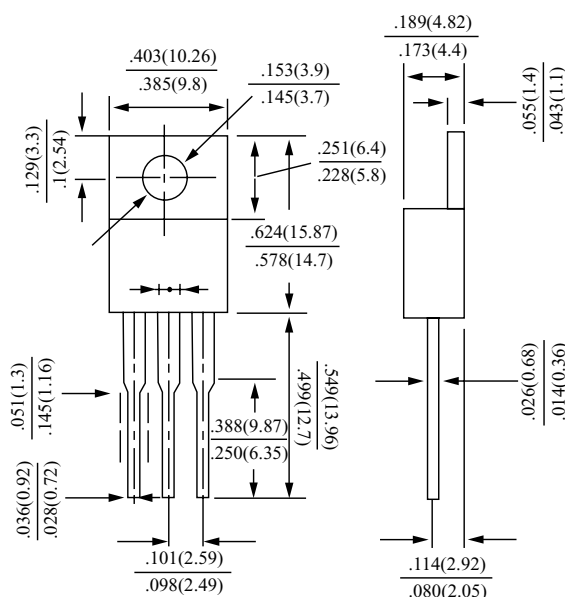
### FEATURES

- 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 : TO-220AB molded plastic
- Polarity : Color band denotes cathode
- Weight : 1.948 grams
- Mounting position : Any

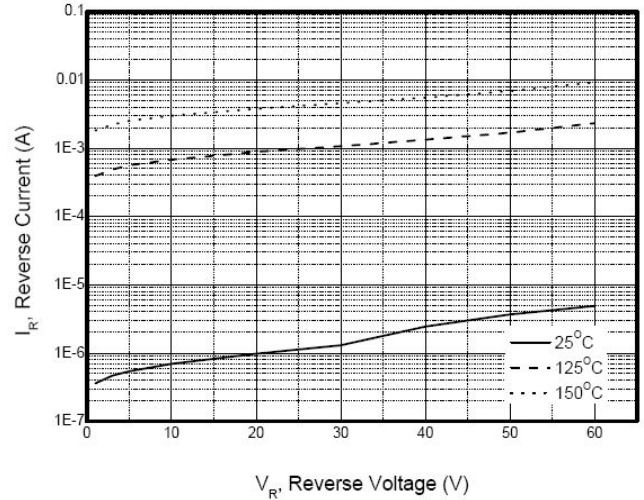
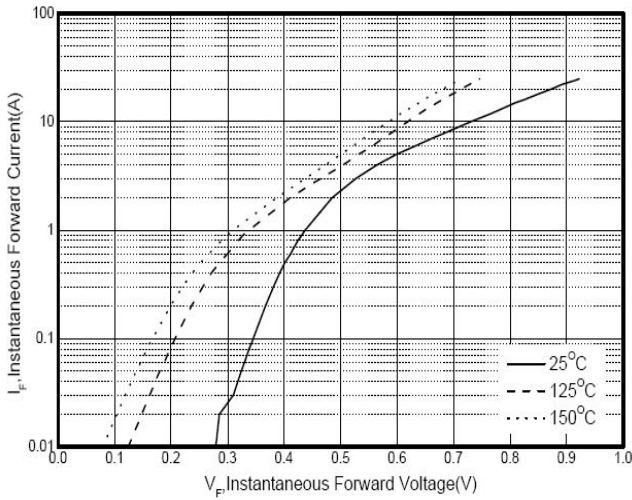
### TO-220AB



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

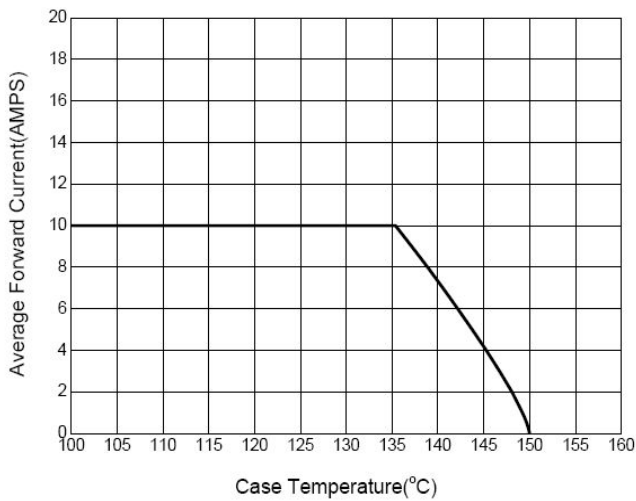
Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	S20C60CT	UNIT
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage	VDC	60	V
Maximum average forward rectified current Per leg	IF	20.0 10.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	200	A
Maximum instantaneous IF=10A @25°C @125°C	VF	0.8 0.7	V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=125°C	IR	0.1 6	mA
Typical Thermal Resistance	RθJC	2.5	°C/W
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	TSTG	-55 to +150	°C



**Typical Forward Voltage per Diode**

**Typical Reverse Current per Diode**



**Average Forward Current vs. Case Temperature Per Diode**