

PFR60L200PT PFR60L200PT-L

PFC Device Corporation

60A 200V MOS Schottky Rectifier

Major ratings and characteristics

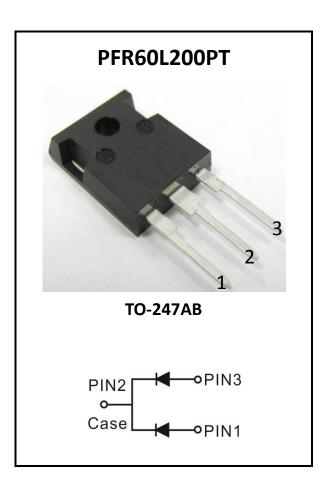
Characteristics	Values	Units	
I _{F(AV)} Rectangular	30 × 2	A	
Waveform	50 × 2		
V _{RRM}	200	V	
V _F @ 30A <i>,</i> Tj=125 ^o C	0.75	V, typ.	
T _J Operating Junction	65 to 175	°C	
Temperature	-65 to +175		

Features

- Low Forward Voltage Drop
- Reliable High Temperature Operation
- Softest, fast switching capability
- 175°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant

Typical Applications

Device optimized for low forward voltage drop to maximize efficiency in Power Supply applications



1. Characteristics

Maximum Ratings Characteristics	$(T_A = 25 °C unless otherwise specified)$
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Parameter	Symbol	Values	Units	
DC Blocking Voltage	V _{RM}			
Working Peak Reverse Voltage	V _{RWM}	200	Volts	
Peak Repetitive Reverse Voltage	V _{RRM}			
Average Rectified Forward Current				
Per device	I _o	60	Amps	
(Rated VR-20Khz Square Wave) - 50% duty cycle				
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	350	Amps	
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	0.5	Amps	
Typical Thermal Resistance (per leg)	Rθ _{Jc}	1.5	°C / W	
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS	
Operating Junction Temperature	TJ	- 65 to +175	°C	
Storage Junction Temperature	T _{STG}	- 65 to +175		

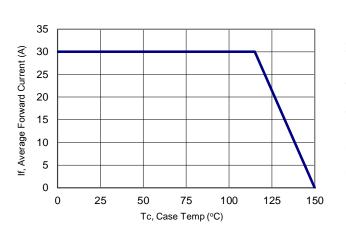
Electrical Characteristics - (per leg) $(T_A = 25 \degree C \text{ unless otherwise specified})$

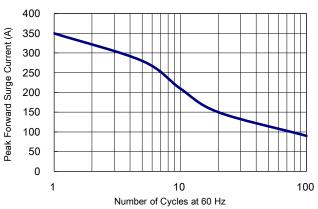
Parameter **Test Conditions** Symbol Units Тур. Max. $T_{J} = 25 \ ^{o}C$ Instantaneous 0.94 ----VF* IF = 30 A Volts T_J = 125 °C Forward Voltage 0.77 0.75 T_J = 25 °C Instantaneous 200 uA ----IR* At V_{RM} T_J = 125 °C **Reverse Current** 20 mΑ ____ * Pulse width < 300 uS, Duty cycle < 2%



2. Characteristics Curves

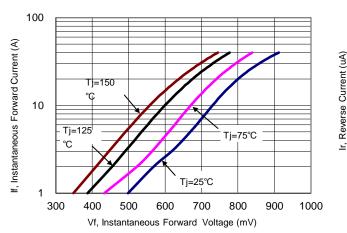
Ratings and Characteristics Curves





(TA = 25° C unless otherwise specified)







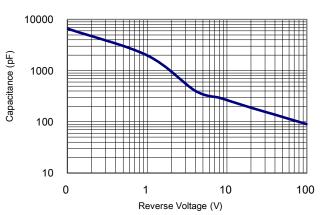






Figure 2: Maximum Repetitive Surge Current

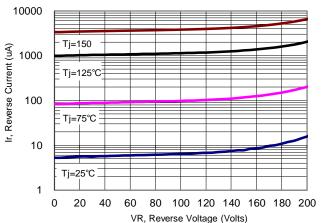


Figure 4: Typical Reverse Current

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3. Marking information

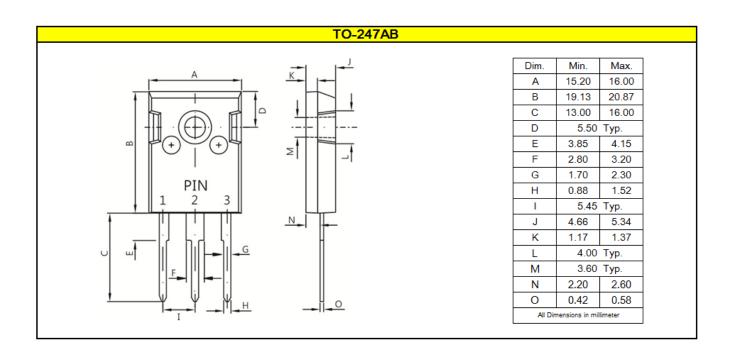
Top Marking Rule



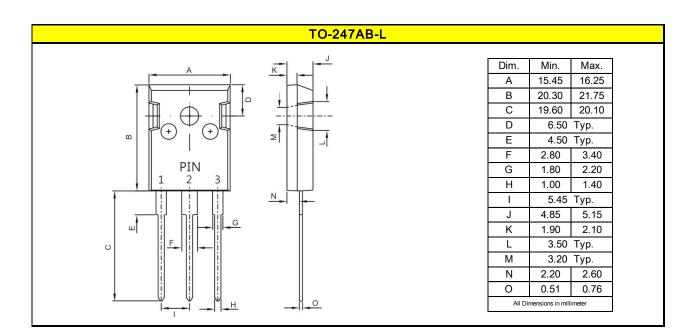
PFR60L200PT = Product Type Marking Code YYWW = Date Code YY = Last two digits of year WW = Week code AB = Assembly code S = Series Number H = Halogen Free (N/A = common molding compound)

4. Package information

Package Outline Dimensions millimeters







5. Ordering information

Part Number	Package	Delivery mode
PFR60L200PT	ТО-247АВ	30 pieces / tube
PFR60L200PT-L	TO-247AB-L(long lead)	30 pieces / tube

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Mechanical

- Molder Plastic: UL Flammability Classification Rating 94V-0
- Device Weight: 0.16 ounces (4.53grams) TO-247AB
 0.197 Ounces (5.6grams) TO-247AB-L (long lead)
 Mounting Torque : 10 in-lbs maximum.



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