

PFR60L300PT-L

PFC Device Corporation

60A 300V MOS Schottky Rectifier

Major ratings and characteristics

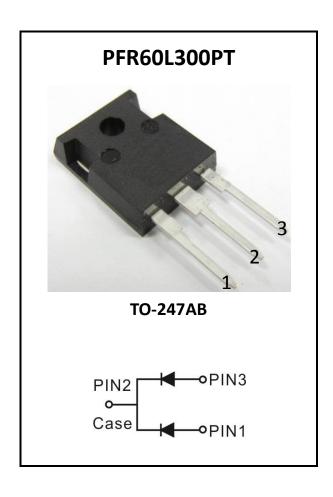
Characteristics	Values	Units	
I _{F(AV)} Rectangular Waveform	30 × 2	А	
	200	V	
V_{RRM}	300	V	
V _F @ 30A , Tj=125 °C	0.78	V, typ.	
T _J Operating Junction	-65 to +175	°C	
Temperature	-03 (0 +1/3		

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



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1. Characteristics

Maximum Ratings Characteristics ($T_A = 25$ °C unless otherwise specified)

Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}		
Working Peak Reverse Voltage	V_{RWM}	300	Volts
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current			
Per device	Io	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)	$R\theta_{Jc}$	1.5	°C/W
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Operating Junction Temperature	T _J	- 65 to +175	
Storage Junction Temperature	T _{STG}	- 65 to +175	

Electrical Characteristics - (per leg) ($T_A = 25$ °C unless otherwise specified)

Parameter	Test Con	ditions	Symbol	Тур.	Max.	Units
Breakdown Voltage	IR = 0.5mA	TJ = 25 °C	V _B *	300 (min.)		V
Instantaneous	IF = 30 A $T_J = 25$ °C $T_J = 125$ °C	$T_J = 25$ °C	25 °C		0.96	Volte
Forward Voltage		VF*	0.78	0.82	Volts	
Instantaneous	At V _{RM}	T _J = 25 °C	ID*		200	uA
Reverse Current		T _J = 125 °C	IR*		20	mA
* Pulse width < 300 uS, Duty cycle < 2%						



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2. Characteristics Curves

Ratings and Characteristics Curves

($TA = 25^{\circ}C$ unless otherwise specified)

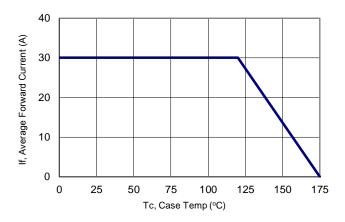
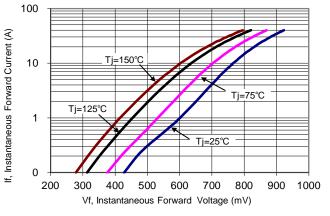


Figure 1: Current Derating, Case

Figure 2: Typical Junction Capacitance



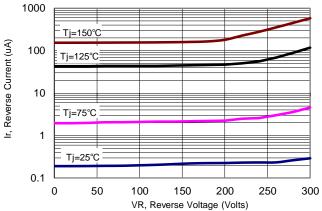


Figure 3: Typical Forward Voltage

Figure 4: Typical Reverse Current



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3. Marking information

Top Marking Rule

PFC PFR 60L300PT YYWW ABSH PFR60L300PT = Product Type Marking Code

YYWW = Date Code

YY = Last two digits of year

WW = Week code

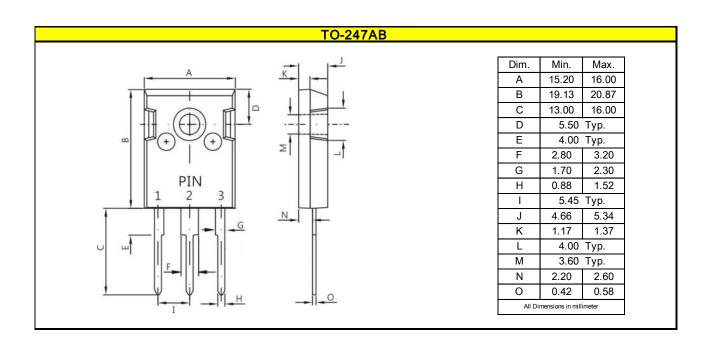
AB = Assembly code

S = Series Number

H = Halogen Free (N/A = common molding compound)

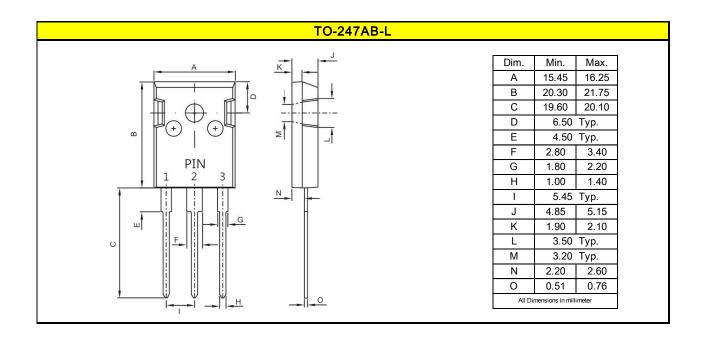
4. Package information

Package Outline Dimensions millimeters





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5. Ordering information

Part Number	Package	Delivery mode	
PFR60L300PT	TO-247AB	30 pieces / tube	
PFR60L300PT-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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Characteristics PFR60L300PT

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