

Major ratings and characteristics

Characteristics	Values	Units
I _{F(AV)} Rectangular Waveform	10 × 2	А
V _{RRM}	200	V
V _F @ 10 A, Tj=125℃	0.68	V , typ.
T _J Operating Junction Temperature	-65 to +175	°C

Features

- * Ultra-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 ultra-low forward voltage drop to maximize efficiency in Power Supply applications

Mechanical

- * Molded Plastic Low profile TO-220AB / ITO-220AB
- * Device Weight : 0.07 ounces (1.96grams) TO-220AB 0.06 ounces (1.74grams) - ITO-220AB
- * Mounting Torque : 10 in-lbs maximum.

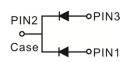
Maximum Ratings Characteristics (T _A = 25°C unless otherwise specified)			
Parameter	Symbol		Units
DC Blocking Voltage	V _{RM}		
Working Peak Reverse Voltage	V _{RWM}	200	Volts
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current			
(Rated VR-20Khz Square Wave) - 50% duty cycle	I _o	20	Amps
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	180	Amps
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	1	Amps
Typical Thermal Resistance (per leg)			
Package = TO-220AB	Rθ _{Jc}	2	°C / W
ITO-220AB		4	
Isolation voltage (ITO-220 only)	V _{AC}	1500	V
Maximum Rate of Voltage Change (at Rated V_R)	dv/dt	10000	V/uS
Operating Junction Temperature	TJ	- 65 to +175	°C
Storage Junction Temperature	T _{STG}	- 65 to +175	℃

TO-220AB



ITO-220AB

PFR20L200CT PFR20L200CTF

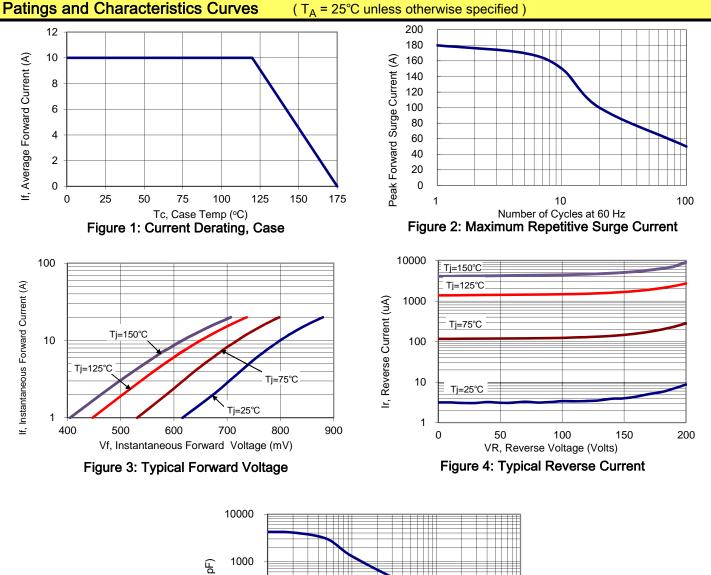




PFR20L200CT PFR20L200CTF

Electrical Characteristics - (per leg) (T _A = 25°C unless otherwise specified)							
Parameter	Test Co	onditions	Symbol	Тур.	Max.	Units	
Instantaneous Forward Voltage IF = 10 A	IE = 10 A	$T_J = 10 \text{ A}$	T _J = 25℃	*		0.86	Volts
	T _J = 125°C	V_{F}	0.68	0.76	VOILS		
Instantaneous Reverse Current At V _{RM}	T _J = 25°C	IR		100	uA		
	AL V _{RM}	T _J = 125°C	IR		10	mA	

* Pulse width < 300 uS, Duty cycle < 2%



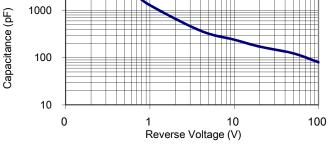


Figure 5: Typical Junction Capacitance



PFR20L200CT PFR20L200CTF

Package Outline Dimensions millimeters **TO-220AB** ITO-220AB 4.40 4.70 10.50 Max 4.80 10.50 Max 4.30 3.00 2.50 3.50 3.30 1.40 DIA 3.50 DIA 1.14 2.90 4.10 3.50 2.90 6.70 6.30 6.86 5.84 8.20 9.60 8.50 9.00 PIN PIN 2 3 1 3 1 2 4.00 Max 6.35 Max 2.80 2.92 2.50 2 03 $\frac{08.0}{0.40}$ 0.95 10.95 13.90 13.90 0.64 0.80 2.79 2.80 0.40 0.30 2.29 2.40 5.30 5.40 5.00 4.80

Ordering information

Part Number	Package	Delivery mode	
PFR20L200CT	TO-220AB	50 pieces / tube	
PFR20L200CTF	ITO-220AB	50 pieces / tube	

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

Marking information

PFC	PFR	
PFC PFR 20L200CT YYWW ABH		
YYWW	ABH	

PFR20L200CT = Product Type Marking Code YYWW = Date Code YY = Last two digits of year WW = Week code AB = Assembly code

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

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