

Major ratings and characteristics

Characteristics	Values	Units
I _{F(AV)} Rectangular Waveform	20 × 2	А
V _{RRM}	60	V
V _F @ 20 A, Tj=125°C	0.51	V , typ.
Tj (operating/storage)	-65 to 150	C°

Features

- * Ultra-Low Forward Voltage Drop
- * Reliable High Temperature Operation
- * Softest, fast switching capability
- * 150°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

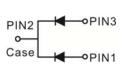
PFC Device Corporation

- * Molded Plastic Low profile TO-220AB
- * Device Weight : 0.07 ounces (1.96grams)
- * 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}	60	Volts	
Peak Repetitive Reverse Voltage	V _{RRM}			
Average Rectified Forward Current		10	Amps	
(Rated V _R -20Khz Square Wave) - 50% duty cycle	۱ _٥	40		
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	400	Amps	
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	Amps	
Typical Thermal Resistance (per leg) Package = TO-220AB	Rθ _{Jc}	2	°C / W	
Maximum Rate of Voltage Change (at Rated V _R)	dv/dt	10000	V/uS	
Operating Junction Temperature	T _J - 65 to +150		℃	
Storage Junction Temperature	T _{STG}	- 65 to +150		



TO-220AB



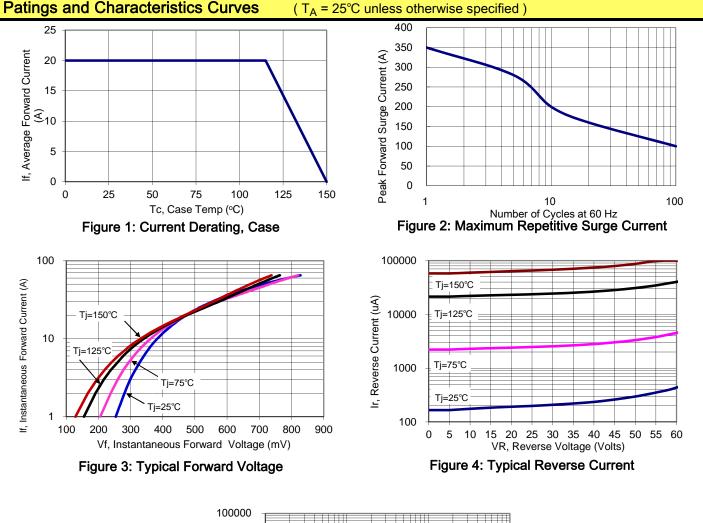
PFR40V60CT



PFR40V60CT

Electrical Characteristics - (per leg) (T _A = 25°C unless otherwise specified)						
Parameter	Test Conditions		Symbol	Тур.	Max.	Units
Instantaneous Forward Voltage	IF = 20 A	T _J = 25°C	V_		0.55	Volts
		T _J = 125°C		0.51	0.53	
Instantaneous Reverse Current	At V _{RM}	T _J = 25°C	IR		500	uA
		T _J = 125°C			100	mA

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



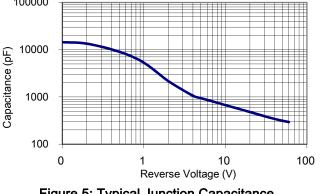
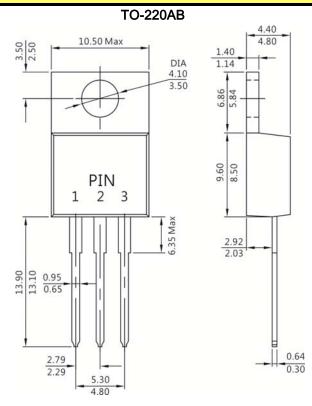


Figure 5: Typical Junction Capacitance



PFR40V60CT

Package Outline Dimensions millimeters



Ordering information

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Part Number	Package	Delivery mode
PFR40V60CT	TO-220AB	50 pieces / tube

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

Marking information

PFC PFR 40V60CT YYWW ABH PFR40V60CT = 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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