

20A 120V HPTR® Schottky Rectifier

Major ratings and characteristics

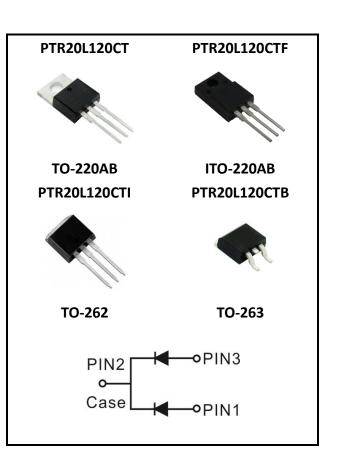
Characteristics	Values	Units	
I _{F(AV)} Rectangular	10 × 2	А	
Waveform	10 × 2		
V _{RRM}	120	V	
V _F @ 10A <i>,</i> Tj=125 [°] C	0.64	V, typ.	
T _J Operating Junction	-40 to +150	°C	
Temperature	-40 (0 +150		

Features

- Super Low Forward Voltage (SLVF[®]) Drop
- Reliable High Temperature Operation
- Softest, fast switching capability
- 150°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°℃	unless otherwise specified)

Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}		
Working Peak Reverse Voltage	V _{RWM}	120	Volts
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current			
Per device	Ι _ο	20	Amps
(Rated VR-20Khz Square Wave) - 50% duty cycle			
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	120	Amps
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	1	Amps
Typical Thermal Resistance (per leg)			
Package = TO-220AB		2	
Package =ITO-220AB	$R\theta_{Jc}$	4	°C / W
Package =TO-262		2.5	
Package =TO-263		3	
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	- 40 to +150	°C
Storage Junction Temperature	T _{STG}	- 40 to +150	

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

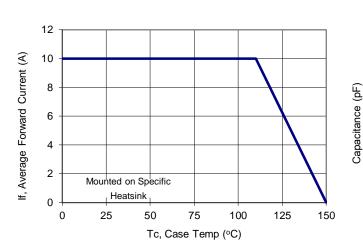
Parameter	Test Con	ditions	Symbol	Тур.	Max.	Units
	IF = 5 A			0.63		
Instantaneous	IF = 10 A	T _J = 25 ^o C	V _F *	0.83	0.9) (alta
Forward Voltage	IF = 5 A	T 105 °C	VF	0.55		- Volts
	IF = 10 A	T _J = 125 °C		0.64	0.72	
	Vr = 90V	T _J = 25 °C T _J = 125 °C		1.4		uA
Instantaneous	VR = 120V		IR [*]	4.3	200	uA
Reverse Current	Vr = 90V					mA
	VR = 120V			4.0	40	mA
* Pulse width < 300 uS, Duty cycle < 2%						



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2. Characteristics Curves

Ratings and Characteristics Curves





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

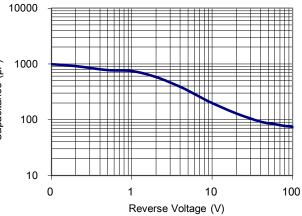


Figure 2: Typical Junction Capacitance

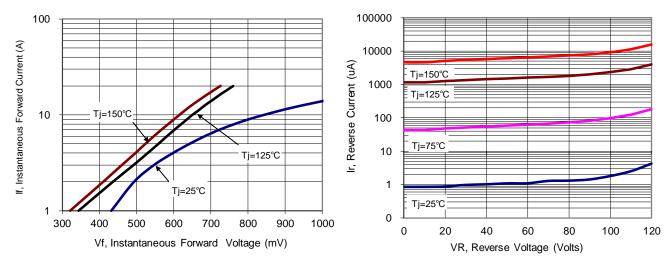


Figure 3: Typical Forward Voltage

Figure 4: Typical Reverse Current



3. Marking information

Top Marking Rule

PFC PTR 20L120CT YYWW ABSH	PTR20L120CT = 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)
PFC PTR 20L120CTF YYWW ABSH	PTR20L120CTF = 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)
PFC PTR 20L120CTI YYWW ABSH	PTR20L120CTI = 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)
PFC PTR 20L120CTB YYWW ABSH	PTR20L120CTB = 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)

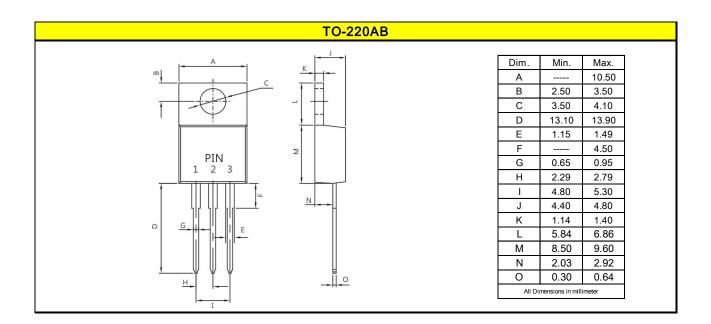


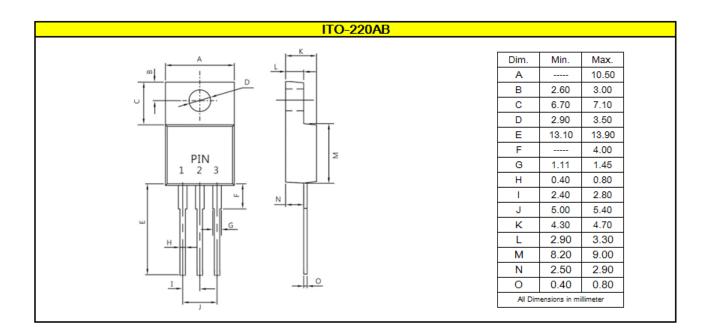
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4. Package information

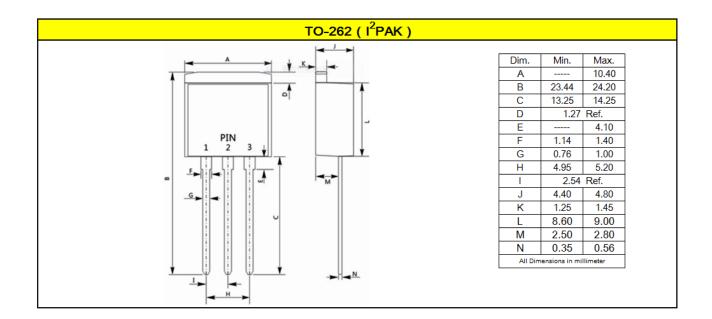
Package Outline Dimensions millimeters

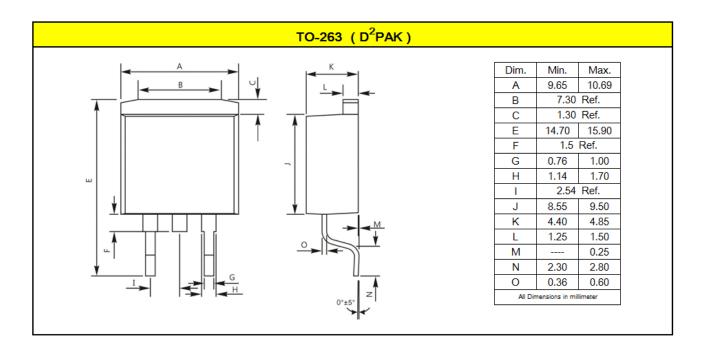






Package Outline Dimensions millimeters







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5. Ordering information

Part Number	Package	Delivery mode
PTR20L120CT	ТО-220АВ	50 pieces / tube
PTR20L120CTF	ITO-220AB	50 pieces / tube
PTR20L120CTI	TO-262	50 pieces / tube
PTR20L120CTB	TO-263	800 pieces / 13" diameter reel

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

Mechanical

- Molder Plastic: UL Flammability Classification Rating 94V-0
- Device Weight : 0.07 ounces (1.96grams) TO-220AB
 - 0.06 ounces (1.74grams) ITO-220AB
 - 0.05 ounces (1.45 grams) TO-262
 - 0.04 ounces (1.16 grams) TO-263
- Mounting Torque : Recommended 4~5 kg-cm.

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