

30A 60V MOS Schottky Rectifier

Major ratings and characteristics

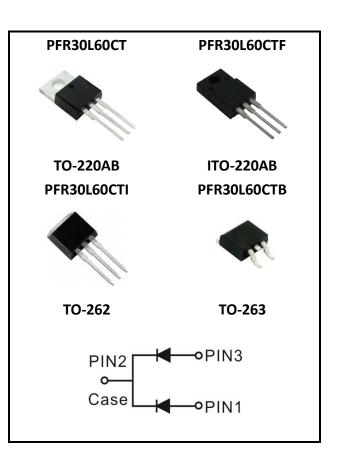
Characteristics	Values	Units	
I _{F(AV)} Rectangular	15 × 2	А	
Waveform	15 × 2		
V _{RRM}	60	V	
V _F @ 15A <i>,</i> Tj=125 [°] C	0.53	V, typ.	
T _J Operating Junction	-65 to +150	°C	
Temperature	-05 (0 +150		

Features

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



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1. Characteristics

Maximum Ratings Characteristics (T _A =	ະ25℃ ı	unless otherwise specified)
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Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}		
Working Peak Reverse Voltage	V _{RWM}	60	Volts
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current			
Per device	I _o	30	Amps
(Rated VR-20Khz Square Wave) - 50% duty cycle			
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	250	Amps
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	Amps
Typical Thermal Resistance (per leg)			
Package = TO-220AB		2	
Package =ITO-220AB	Rθ _{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	- 65 to +150	°C
Storage Junction Temperature	T _{STG}	- 65 to +150	

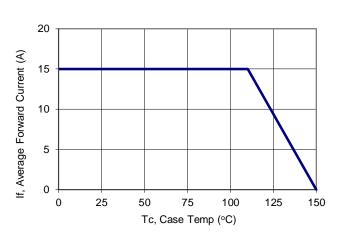
Electrical Characteristics - (per leg) $(T_A = 25^{\circ}C \text{ unless otherwise specified})$

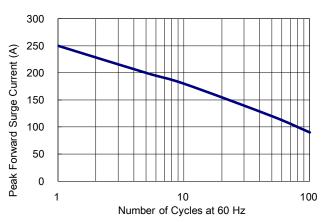
Parameter	Test Con	ditions	Symbol	Тур.	Max.	Units
Instantaneous		T _J = 25 ^o C	VF*		0.6	Volta
Forward Voltage	IF = 15 A	T _J = 125 ^o C	VF	0.53	0.56	Volts
Instantaneous		T _J = 25 ^o C	* חו		500	uA
Reverse Current	At V _{RM}	T _J = 125 ^o C	IR*		100	mA
* Pulse width < 300 uS, Duty cycle < 2%						



2. Characteristics Curves

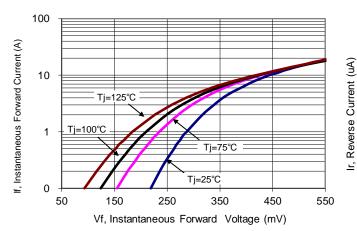
Ratings and Characteristics Curves



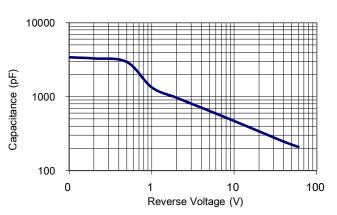


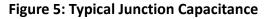
(TA = 25° C unless otherwise specified)













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Figure 2: Maximum Repetitive Surge Current

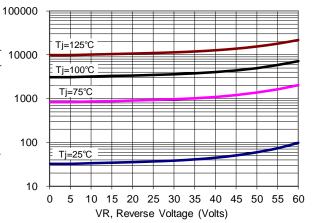
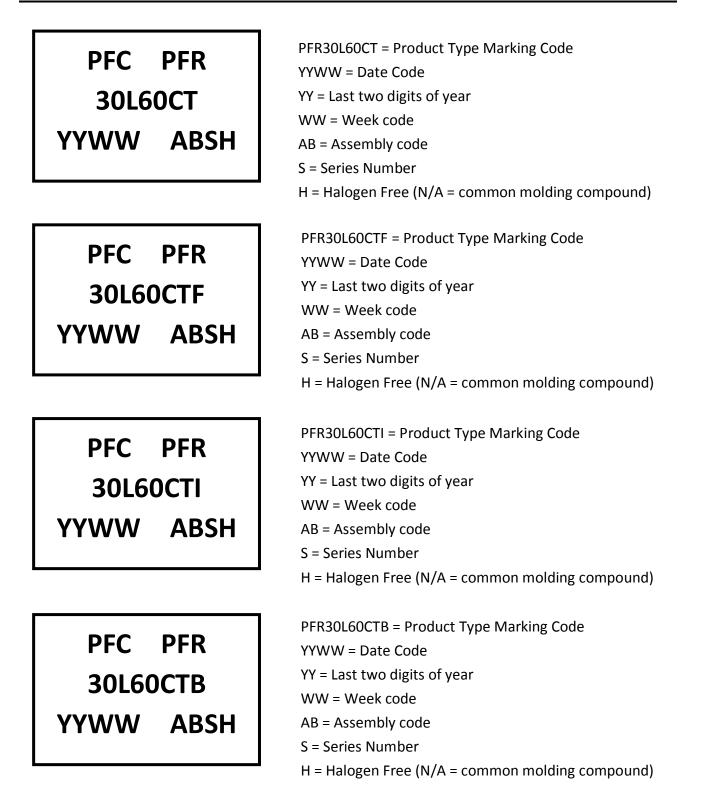


Figure 4: Typical Reverse Current

3. Marking information

Top Marking Rule



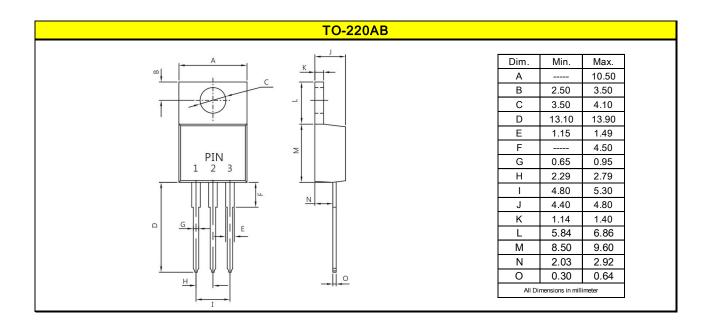


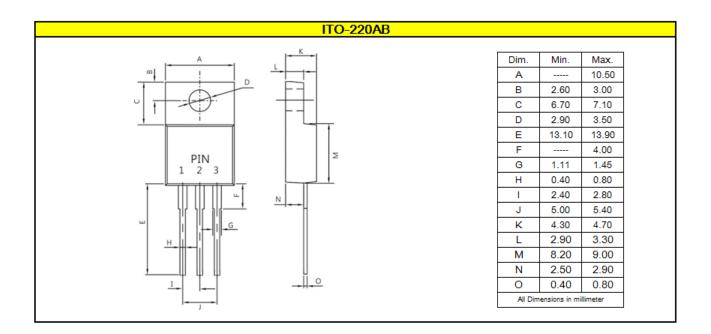
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4. Package information

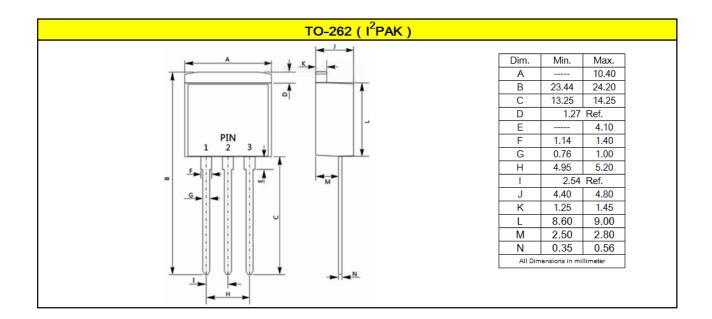
Package Outline Dimensions millimeters

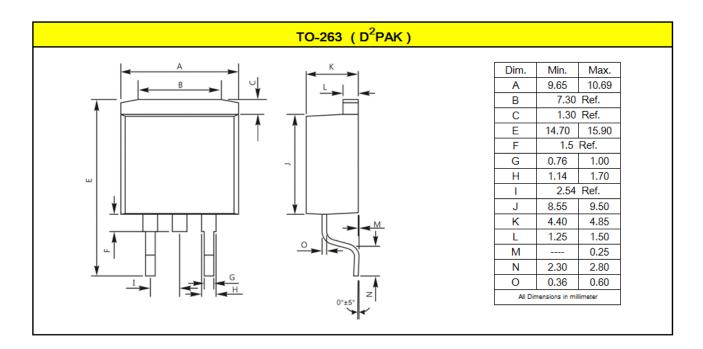






Package Outline Dimensions millimeters







5. Ordering information

Part Number	Package	Delivery mode
PFR30L60CT	ТО-220АВ	50 pieces / tube
PFR30L60CTF	ITO-220AB	50 pieces / tube
PFR30L60CTI	TO-262	50 pieces / tube
PFR30L60CTB	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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