

#### Maximum Ratings (Per Leg) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> Vrwm V <sub>RM</sub>	150	V	
Average Rectified Output Current Per Device (Per Leg) (Total)	lo	15 30	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	200	A	
Peak Repetitive Reverse Surge Current (2µS - 1Khz)	I <sub>RRM</sub>	2	А	
Isolation Voltage (ITO-220AB Only) From terminal to heatsink t = 3 sec.	V <sub>AC</sub>	2000	V	

# Thermal Characteristics (Per Leg)

Characteristic	Currence al	Value	11
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance			
Package = TO-220AB	R <sub>0JC</sub>	2	°C/W
Package = ITO-220AB		4	
Operating and Storage Temperature Range	TJ, T <sub>STG</sub>	-65 to +175	°C

## Electrical Characteristics (Per Leg) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V <sub>F</sub>	-	- 0.78	0.92 0.82		I <sub>F</sub> = 15A, T <sub>J</sub> = +25⁰C I <sub>F</sub> = 15A, T <sub>J</sub> = +125⁰C
Leakage Current (Note 6)	I <sub>R</sub>	-	-	0.1 10	ma	V <sub>R</sub> = 150V, T <sub>J</sub> = +25°C V <sub>R</sub> = 150V, T <sub>J</sub> = +125°C

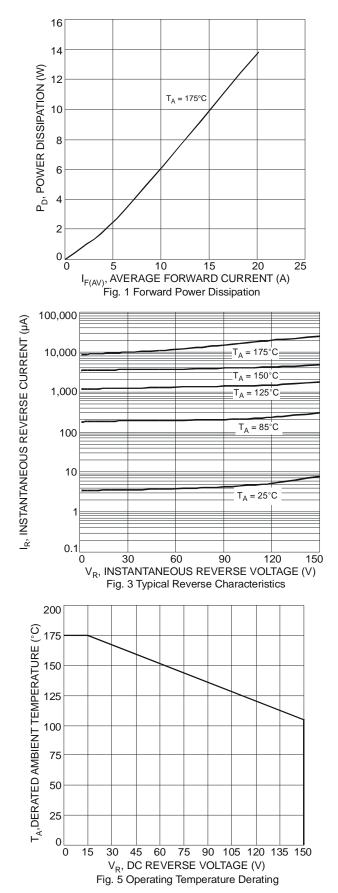
Notes: 6. Short duration pulse test used to minimize self-heating effect.

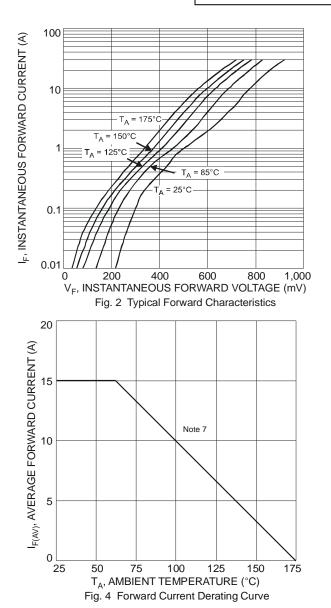
7. Using heatsink (by Black Aluminum 37mm x 50mm x 15mm)

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### SBR30150CT SBR30150CTFP





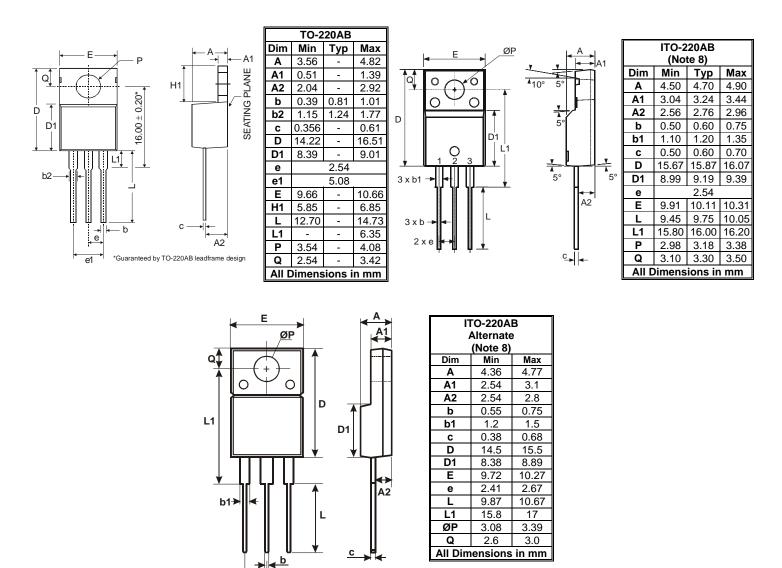
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### **Package Outline Dimensions**

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

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Notes: 8. For product manufactured with Date Code 0733 (week 33, 2007) and newer, please refer to ITO-220AB dimensions. For product manufactured prior to Date Code 0733, please refer to ITO-220AB ALTERNATE dimensions.

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