

Maximum Ratings (@TA = +25°C, unless otherwise specified.)

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

For capacitance load, derate current by 20%.

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _{RM}	60	V
Average Rectified Output Current	(Per Leg) (Total)	Io	15 30	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	(Per leg)	I _{FSM}	220	А

Thermal Characteristics (Per Leg)

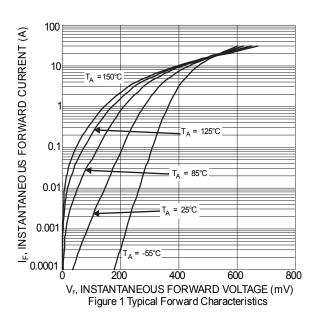
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Case TO-220 (Note 5) ITO-220 (Note 5)	$R_{ heta JA}$	1 2.5	°C/W
Operating and Storage Temperature Range	$T_{J,} T_{STG}$	-55 to +150	°C

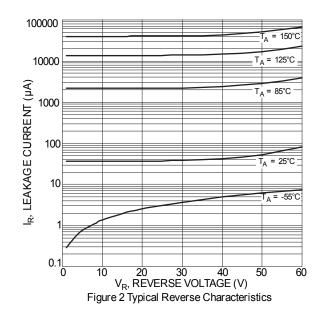
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF		0.49	0.56 0.54	V	I _F = 15A, T _J = +25°C I _F = 15A, T _J = +125°C
Leakage Current (Note 6)	I _R		85 —	400 70	•	V _R = 60V, T _J = +25°C V _R = 60V, T _J = +125°C

Notes:

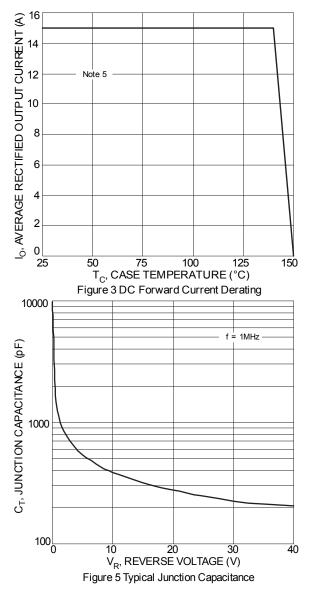
Test with additional heatsink (50mm x 50mm x 23mm Al heatsink).
Short duration pulse test used to minimize self-heating effect.

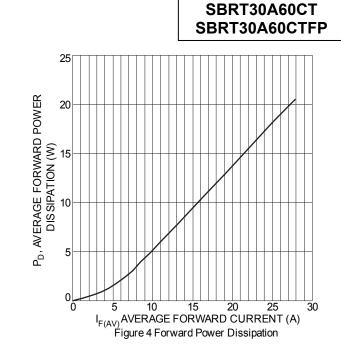




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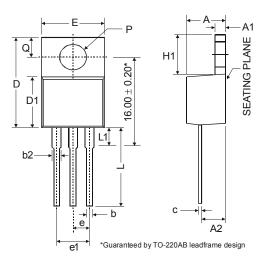


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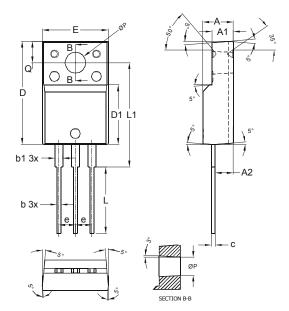


Package Outline Dimensions

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



TO220AB						
Dim	Min	Тур	Max			
A	3.56	I	4.82			
A1	0.51	I	1.39			
A2	2.04	I	2.92			
b	0.39	0.81	1.01			
b2	1.15	1.24	1.77			
С	0.356	-	0.61			
D	14.22	-	16.51			
D1	8.39	-	9.01			
e	2.54					
e1	5.08					
ш	9.66	-	10.66			
H1	5.85	-	6.85			
L	12.70	-	14.73			
L1	-	-	6.35			
Ρ	3.54	-	4.08			
Q	2.54	-	3.42			
All Dimensions in mm						



ITO-220AB					
Dim	Min Typ		Max		
Α	4.50	4.70	4.90		
A1	3.04	3.24	3.44		
A2	2.56	2.76	2.96		
b	0.50	0.60	0.75		
b1	1.10	1.20	1.35		
С	0.50	0.60	0.70		
D	15.67	15.87	16.07		
D1	8.99	9.19	9.39		
е	2.54				
Е	9.91	10.11	10.31		
L	9.45	9.75	10.05		
L1	15.80	16.00	16.20		
Ρ	2.98	3.18	3.38		
Q	3.10	3.30	3.50		
All Dimensions in mm					



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