

Maximum Ratings (Per Leg) (@T_A = +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}	120	V
Average Rectified Output Current Per Device	(Per Leg) (Total)	lo	15 30	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	250	A
Peak Repetitive Reverse Surge Current (2µS - 1Khz)		I _{RRM}	3	A
Isolation Voltage (ITO-220AB Only) From terminal to heatsink t = 3 sec.		V _{AC}	2000	V

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance			
Package = TO-220AB	$R_{\theta JC}$	2	°C/W
Package = ITO-220AB	000	4	
Operating and Storage Temperature Range	T_{J}, T_{STG}	-65 to +175	°C

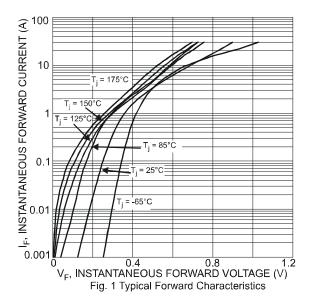
Electrical Characteristics (Per Leg) (@TA = +25°C, unless otherwise specified.)

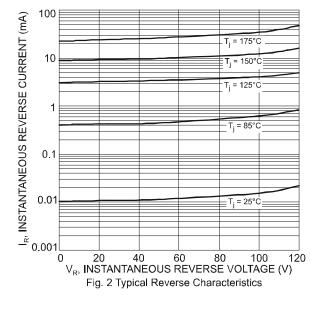
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V_{F}	1	0.78 0.65 0.90	0.83 0.68 0.95	V	I _F = 15A, T _J = +25°C I _F = 15A, T _J = +125°C I _F = 30A, T _J = +25°C
Leakage Current (Note 6)	I _R	-	22 5	100 20	· .	V _R = 120V, T _J = +25°C V _R = 120V, T _J = +125°C

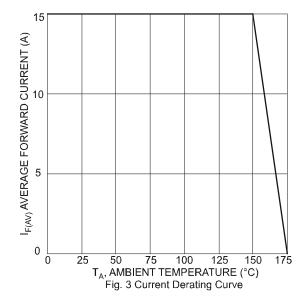
Notes: 6. Short duration pulse test used to minimize self-heating effect.







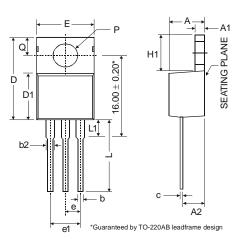




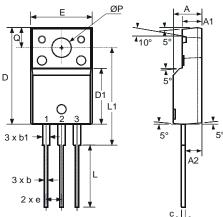


Package Outline Dimensions

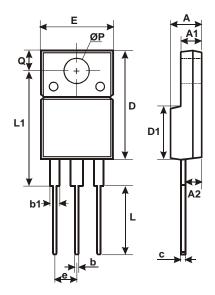
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.



TO-220AB				
Dim	Min	Тур	Max	
Α	3.56	1	4.82	
A 1	0.51	ı	1.39	
A2	2.04	1	2.92	
b	0.39	0.81	1.01	
b2	1.15	1.24	1.77	
С	0.356	1	0.61	
D	14.22	ı	16.51	
D1	8.39	1	9.01	
е	2.54			
e1	5.08			
Е	9.66	ı	10.66	
H1	5.85	1	6.85	
L	12.70	-	14.73	
L1	-	-	6.35	
Р	3.54	-	4.08	
Q	2.54	-	3.42	
All Dimensions in mm				



	ITO-220AB (Note 8)				
Dim	Min	Тур	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		
Р	2.98	3.18	3.38		
Q	3.10	3.30	3.50		
All C	All Dimensions in mm				



ITO-220AB					
Alternate					
	(Note 8)				
Dim	Dim Min Max				
Α	4.36	4.77			
A1	2.54	3.1			
A2	2.54	2.8			
b	0.55	0.75			
b1	1.2	1.5			
С	0.38	0.68			
D	14.5	15.5			
D1	8.38	8.89			
Е	9.72	10.27			
е	2.41	2.67			
L	9.87	10.67			
L1	15.8	17			
ØΡ	3.08	3.39			
Q	2.6	3.0			
All Dimensions in mm					
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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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