

Maximum Ratings (Per Leg) @T_A = 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 _{RRM} V _{RWM} V _{RM}	100	V
Average Rectified Output Current per Device (Per Leg) (Total)	lo	10 20	A
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 (2uS-1Khz)	I _{RRM}	3	А
Isolation Voltage (ITO-220AB Only) From Terminal to Heatsink t = 3 sec	V _{AC}	2000	V

Thermal Characteristics (Per Leg)

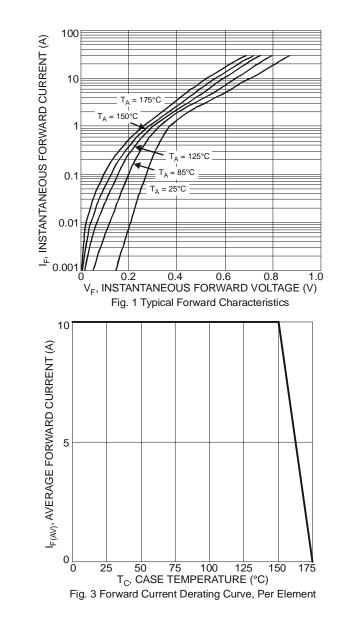
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Package = TO-220AB Package = ITO-220AB	$R_{ ext{ heta}JC}$	2 4	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

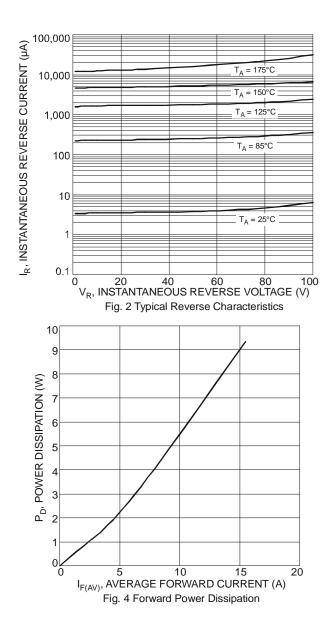
Electrical Characteristics (Per Leg) @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	-	- 0.60 -	0.75 0.64 0.85	V	$\begin{split} I_F &= 10A, T_J = 25^{\circ}C \\ I_F &= 10A, T_J = 125^{\circ}C \\ I_F &= 20A, T_J = 25^{\circ}C \end{split}$
Leakage Current (Note 5)	I _R	-	-	0.1 10	mA	V _R = 100V, T _J = 25°C V _R = 100V, T _J = 125°C

Notes: 5. Short duration pulse test used to minimize self-heating effect.

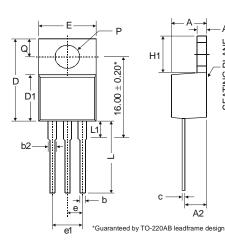








Package Outline Dimensions

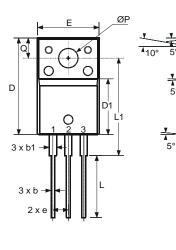


	TO-220AB			
Dim	Min	Тур	Max	
Α	3.56	1	4.82	
A1	0.51	-	1.39	
A2	2.04	-	2.92	
b	0.39	0.81	1.01	
b2	1.15	1.24	1.77	
С	0.356	1	0.61	
D	14.22	-	16.51	
D1	8.39	-	9.01	
е	2.54			
e1	5.08			
Е	9.66	-	10.66	
H1	5.85	1	6.85	
L	12.70	-	14.73	
L1	-	-	6.35	
Ρ	3.54	-	4.08	
Q	2.54	-	3.42	
All D	All Dimensions in mm			

A1

SEATING PLANE

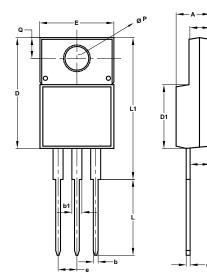
A2



	ITO-220AB (Note 5)			
	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
Ļ	С	0.50	0.60	0.70
5°	D	15.67	15.87	16.07
5	D1	8.99	9.19	9.39
	е		2.54	
	Е	9.91	10.11	10.31
	_	9.45	9.75	10.05
	L1	15.80	16.00	16.20
	Ρ	2.98	3.18	3.38
	ø	3.10	3.30	3.50
		Dimens	ions in	mm

A2

С



I	ITO220AB				
Alte	Alternate (Note 6)				
Dim	Min	Max			
Α	4.36	4.77			
A1	2.54	3.10			
A2	2.54	2.80			
b	0.55	0.75			
b1	1.20	1.50			
С	0.38	0.68			
D	14.50	15.50			
D1	8.38	8.89			
е	2.41	2.67			
Е	9.72	10.27			
L	9.87	10.67			
L1	15.8	17.00			
Р	3.08	3.39			
Q	2.60	3.00			
All Dimensions in mm					

Notes: 6. 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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5 of 5

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