

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}	200	V
Maximum Voltage Rate of Change (Rated V _R)	dv/dt	10,000	V/µs
Average Rectified Output Current (Per Leg) (Total)	IO	10 20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	180	А
Peak Repetitive Reverse Surge Current (2µS-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

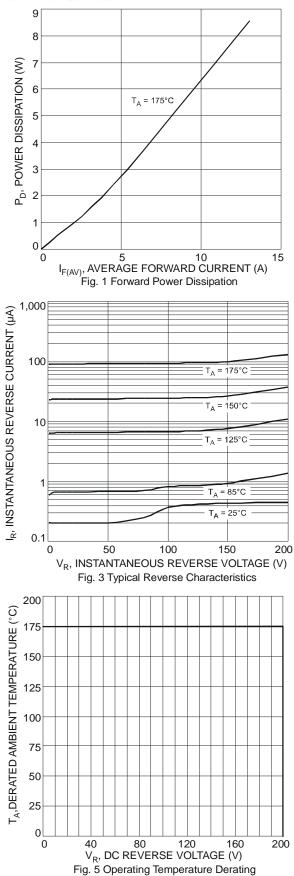
Electrical Characteristics (Per Leg) @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	-	- 0.66 -	0.86 0.72 0.96	V	I _F = 10A, T _J = 25°C I _F = 10A, T _J = 125°C I _F = 20A, T _J = 25°C
Leakage Current (Note 6)	I _R	-	-	0.1 10	mA	V _R = 200V, T _J = 25°C V _R = 200V, T _J = 125°C
Reverse Recovery Time	t _{rr}	-	24	30	ns	I _F = 0.5A, I _R = 1A, I _{RR} = 0.25A
		-	20	25		$I_F = 1A, V_R = 30V,$ di/dt = 100A/µs, T _J = 25°C

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







Notes: 7. Using heatsink (by black Aluminum 45mm * 20mm * 12mm)

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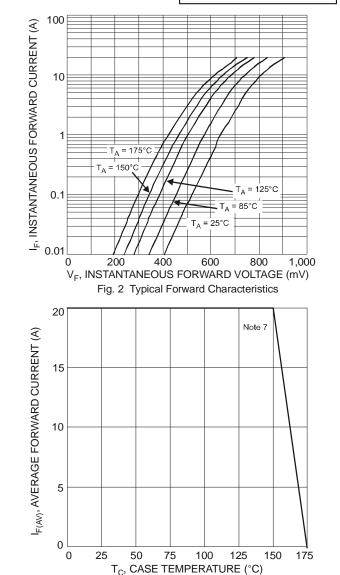
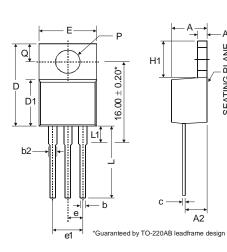


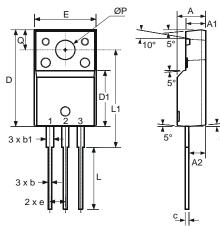
Fig. 4 Forward Current Derating Curve



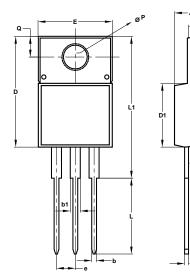
Package Outline Dimensions



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



	ITO-220AB			
.1	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
5 °	D1	8.99	9.19	9.39
0	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			



	ITO220AB				
	(Alternate)				
	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		
	c	0.38	0.68		
1	D	14.50	15.50		
-A2	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				

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