

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		V _{RRM} Vrwm	150	V	
DC Blocking Voltage		V _{RM}			
0	Per Leg) Total)	lo	10 20	A	
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}	2,000	V	

Thermal Characteristics (Per Leg)

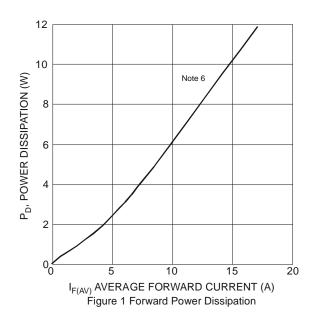
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (Note 6) Package = TO-220AB Package = ITO-220AB	R _θ Jc	2 4	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

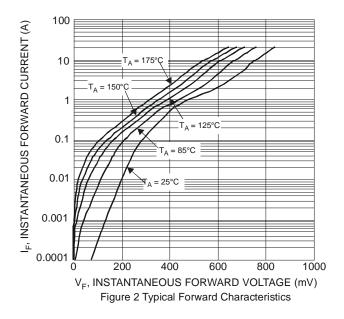
Electrical Characteristics (Per Leg) (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF		 0.64	0.82 0.68	V	I _F = 10A, T _J = +25°C I _F = 10A, T _J = +125°C
Leakage Current (Note 7)	I _R	_	_	0.1 10	ma	$V_R = 150V, T_J = +25^{\circ}C$ $V_R = 150V, T_J = +125^{\circ}C$

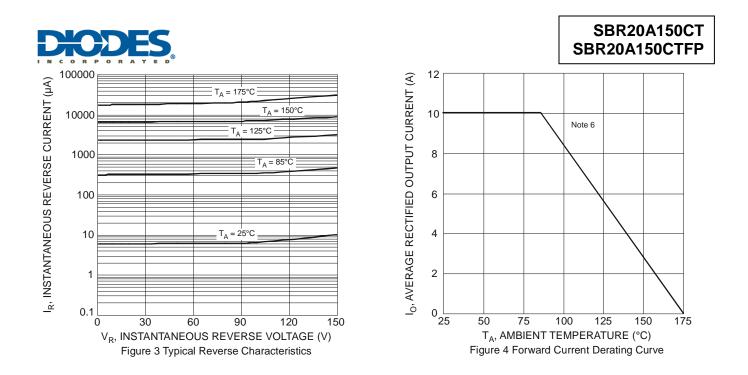
Notes: 6. Device mounted on additional heatsink, (50mm x 50mm x 23mm Al heatsink).

7. Short duration pulse test used to minimize self-heating effect.



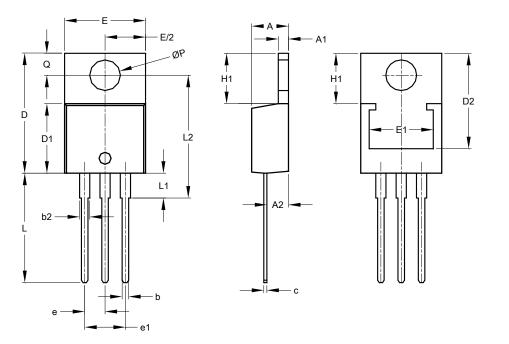


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Package Outline Dimensions

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

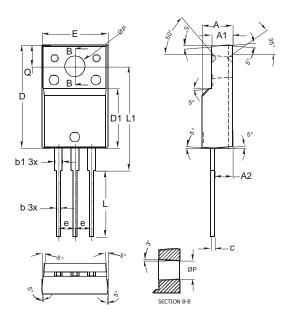


TO220AB				
Dim	Min	Max	Тур	
Α	3.56	4.82	-	
A1	0.51	1.39	-	
A2	2.04	2.92	-	
b	0.39	1.01	0.81	
b2	1.15	1.77	1.24	
С	0.356	0.61	-	
D	14.22	16.51	-	
D1	8.39	9.01	-	
D2	11.45	12.87	-	
е	-	-	2.54	
e1	-	-	5.08	
Е	9.66	10.66	-	
E1	6.86	8.89	-	
H1	5.85	6.85	-	
L	12.70	14.73	-	
L1	-	6.35	-	
L2	15.80	16.20	16.00	
Ρ	3.54	4.08	-	
Q	2.54	3.42	-	
All Dimensions in mm				

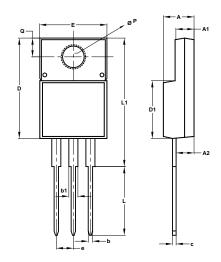


Package Outline Dimensions (continued)

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



ITO-220AB			
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 Dimensions in mm			



ITO-220AB			
(Type E)			
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	
D	14.50	15.50	
D1	8.38	8.89	
е	2.41	2.67	
E	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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