

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} Vrwm V _{RM}	100	V
Average Rectified Output Current (@ T _C = +115°C)	lo	10	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	120	А
Peak Repetitive Reverse Surge Current (2µS-1kHz)	I _{RRM}	2	А
Isolation Voltage (ITO-220AB Only) From Terminal to Heatsink t = 3 sec	V _{AC}	2,000	V

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (per leg) Package = TO-220AB (Note 7) Package = ITO-220AB (Note 7)	Rejc	2 4	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-65 to +150	°C

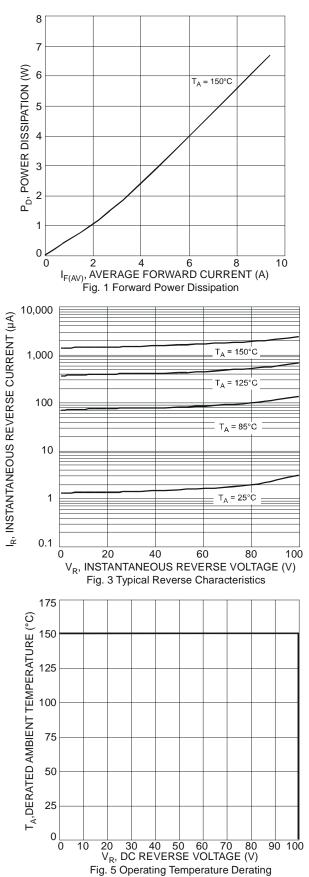
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

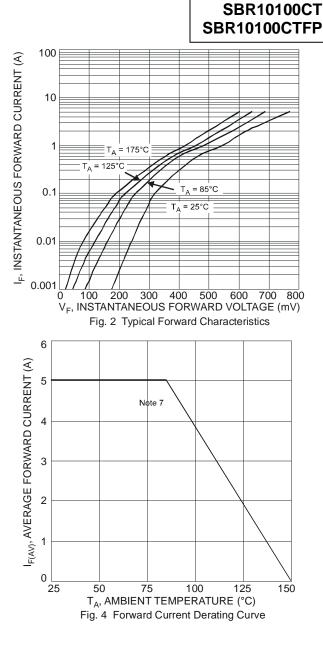
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	_		0.80 0.71		I _F = 5A, T _J = +25°C I _F = 5A, T _J = +125°C
Leakage Current (Note 6)	I _R	—	-	100 15		$V_R = 100V, T_J = +25^{\circ}C$ $V_R = 100V, T_J = +125^{\circ}C$

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

7. Test with Aluminum heatsink 50 x 50 x 23 mm.





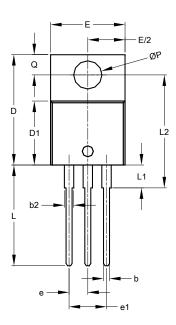


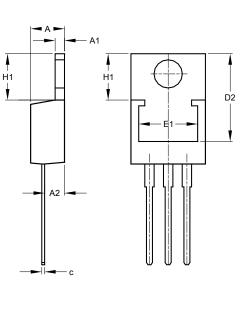


Package Outline Dimensions

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

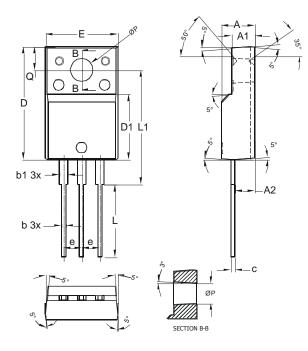
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TO220AB					
Dim	Min	Max	Тур		
Α	3.56	4.82	-		
A1	0.51	1.39	-		
A2	2.04	2.92	-		
b	0.39	1.01	0.81		
b2	1.15	1.77	1.24		
С	0.356	0.61	-		
D	14.22	16.51	-		
D1	8.39	9.01	-		
D2	11.45	12.87	-		
е	-	-	2.54		
e1	-	-	5.08		
Ε	9.66	10.66	-		
E1	6.86	8.89	-		
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					

ITO220AB



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				
ш	9.91	10.11	10.31		
1	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					

TO220AB



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