

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}	40	V
Average Rectified Output Current Per Device (Per Leg) (Total)	I _O	10 20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	200	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)

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Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (per leg)			
Package = TO-220AB	R _{θJC}	2	°C/W
Package = ITO-220AB		4	
Operating and Storage Temperature Range	TJ, T _{STG}	-65 to +150	°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	-	- 0.41 -	0.47 0.44 0.60		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	-	-	0.5 100	mA	$V_R = 40V, T_J = 25^{\circ}C$ $V_R = 40V, T_J = 125^{\circ}C$

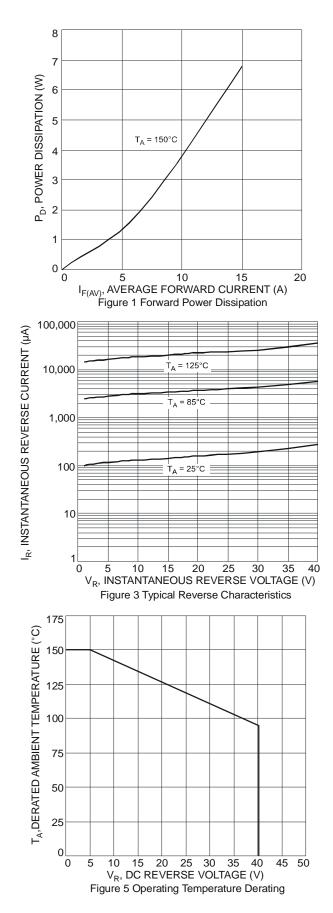
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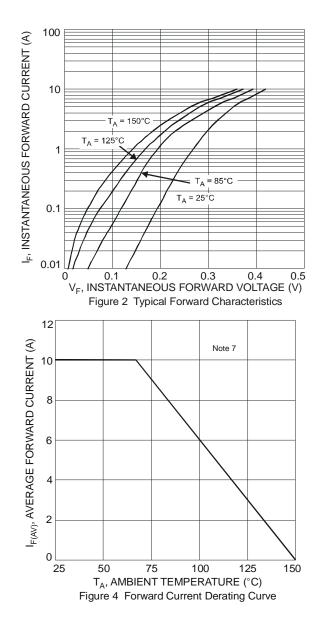
6. Short duration pulse test used to minimize self-heating effect.7. Using heatsink (by Black Aluminum,(45mm*20mm*12mm)

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SBR20U40CT SBR20U40CTFP





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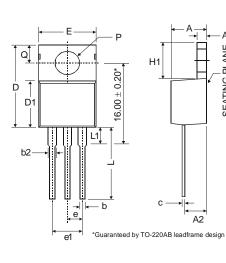


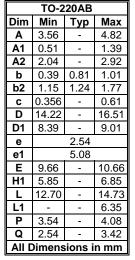
Package Outline Dimensions

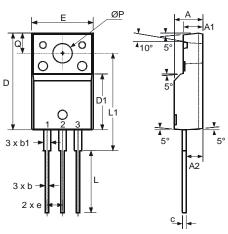
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

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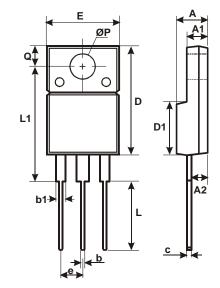
SEATING PLANE







	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		
° e	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				
Alternate				
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		
E	9.72	10.27		
е	2.41	2.67		
L	9.87	10.67		
L1	15.8	17		
ØP	3.08	3.39		
Q	2.6	3.0		
All Dimensions in mm				

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