

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}	120	V
Average Rectified Output Current per Device (Per Leg) (Total)	lo	15 30	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	150	А

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (Note 5) Package = TO220AB (Generic) Package = ITO220AB (Type HE)	R _{θJC}	2 4	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-55 to +150	°C

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

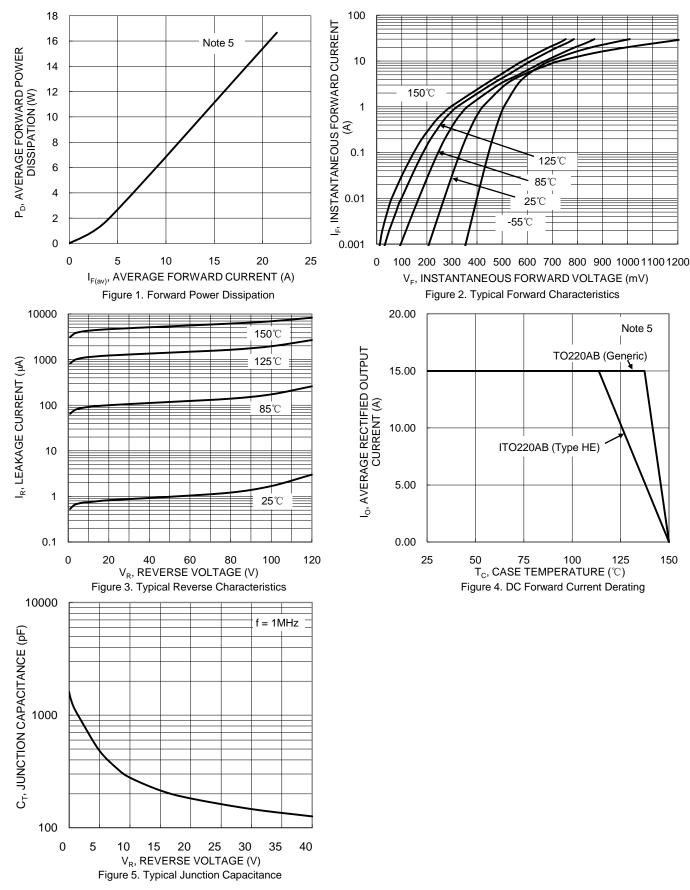
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F		0.73 0.87 0.67	 0.93 0.73		I _F = 10A, T _J = +25°C I _F = 15A, T _J = +25°C I _F = 15A, T _J = +125°C
Leakage Current (Note 6)	I _R		4 3	100 20		V _R = 120V, T _J = +25°C V _R = 120V, T _J = +125°C

Notes: 5. With 50mm*50mm*23mm AI heatsink.

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



SDT30120CT/ SDT30120CTFP



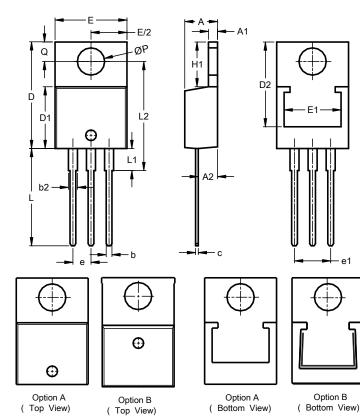
NEW PRODUCT



Package Outline Dimensions

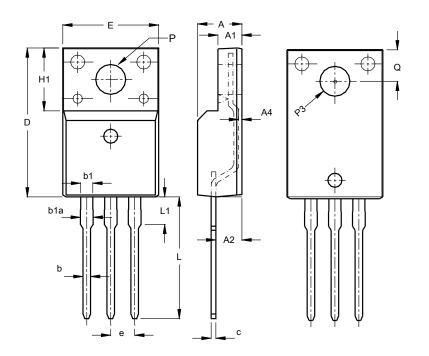
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: TO220AB (Generic)



TC	TO220AB (Generic)				
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	-	4.42	-		
L2	15.80	17.51	16.00		
Ρ	3.54	4.08	-		
q	2.54	3.42	-		
All Dimensions in mm					

(2) Package Type: ITO220AB (Type HE)



ITO220AB (Type HE)					
Dim	Min	Max	Тур		
Α	4.50	4.90	4.70		
A1	2.34	2.74	2.54		
A2	2.56	2.96	2.76		
A4	0.30	0.60	0.45		
b	0.70	0.95	0.80		
b1	1.18	1.43	1.28		
b1a	1.25	1.55	1.35		
С	0.45	0.60	0.50		
D	15.57	16.17	15.87		
е	2	2.54 BSC			
Е	9.96	10.36	10.16		
H1	6	6.70 REF			
L	12.68	13.28	12.98		
L1	3.03	3.43	3.23		
Q	3.15	3.45	3.30		
ØP	3.03	3.38	3.18		
ØP3	3.15	3.65	3.45		
All Dimensions in mm					



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