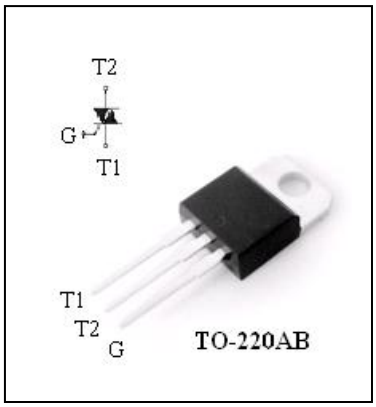
BTA06/600CW **•Package** TO-220AB



•Main Feature(Tj=25℃)

Symbol	Value	Unit
$I_{T(RMS)}$	6	A
V_{DRM} / V_{RRM}	⩾600	V
I_{TSM}	60	A

•Absolute ratings (Limiting Values)

Symbol	Parameter	Value		Unit
$I_{T(RMS)}$	Rms on-state current(full sine wave)	6		A
I_{TSM}	Non- repetitive Peak on-state Current (T_j=25℃,tp=20ms)	25		A
I^2t	I^2t for fusing(tp=10ms)	3.1		A^2S
I_{GM}	Peak gate current	2		A
V_{GM}	Peak gate voltage	16		V
P_{GM}	Peak gate power	0.5		W
$P_{G(AV)}$	Average gate power	1		W
dI_T/dt	Ig=21GT, trr<100ns, Tj=125℃	I - II -III	50	A/μs
		IV	50	
Tstg Tj	Storage temperature Operating junction temperature	-40--+150 -40--+125		℃

•Thermal Resistances

Symbol	Parameter	Condition		Type	Unit
Rth j-c	Thermal Resistance,Junction to case	One cycle	BTA	3.5	℃/W
Rth j-a	Thermal Resisatance,Junction to ambient	——	——	60	℃/W

●Electrical characteristics (Tj=25℃ unless otherwise stated)

Symbol	Test Conditions	Type	Max	Unit
I_{GT}	BTA V_D=12V I_T=0.1A T2+ G+ T2+ G- T2- G-	 17 20 20	CW 25 30 30	 mA mA mA
I_H	V_D=12V I_{GT}=0.1A		50	mA
V_{TM}	I_T=20A	—1.3—	1.55	V

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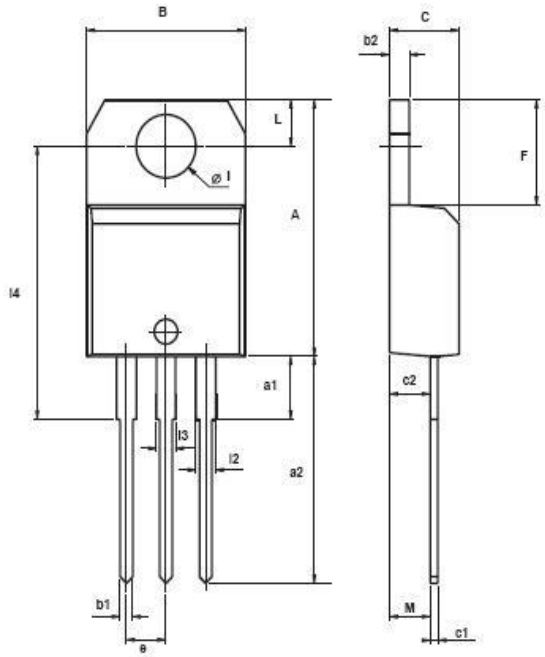
I_{DRM}	V_{DRM}=800V		10	μA
I_{RRM}	V_{RRM}=800V		10	μA
V_{GT}	V_D=12V I_T=0.1A Tj=125℃	——	1.30	V
I_D	V_D=V_{DRM}（MAX） Tj=125℃	——	0.5	mA

●Dynamic characteristics (Tj=25℃ unless otherwise stated)

Symbol	Test Conditions	Type	Min	Max	Unit
dV/dt	V_{DM}=67%V_{Dm}（MAX） Tj=110℃	400	200	——	V/μs
(dV/dt)c	(dI/dt)c=7A/ms Tj=125℃	——	5	10	μs

●Measure of package TO-220AB :

TO-220AB Ins.



REF.	尺寸					
	毫米			英尺		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	15.20		15.90	0.598		0.625
a1		3.75			0.147	
a2	13.00		14.00	0.511		0.551
B	10.00		10.40	0.393		0.409
b1	0.61		0.88	0.024		0.034
b2	1.23		1.32	0.048		0.051
C	4.40		4.60	0.173		0.181
c1	0.49		0.70	0.019		0.027
c2	2.40		2.72	0.094		0.107
e	2.40		2.70	0.094		0.106
F	6.20		6.60	0.244		0.259
I	3.75		3.85	0.147		0.151
I4	15.80	16.40	16.80	0.622	0.646	0.661
L	2.65		2.95	0.104		0.116
I2	1.14		1.70	0.044		0.066
I3	1.14		1.70	0.044		0.066
M		2.60			0.102	