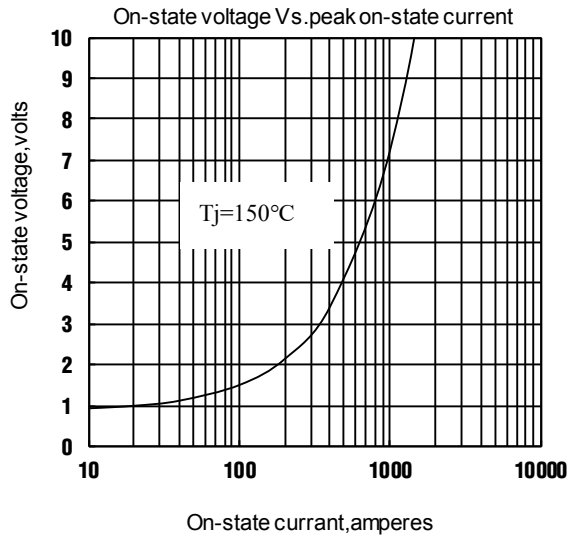
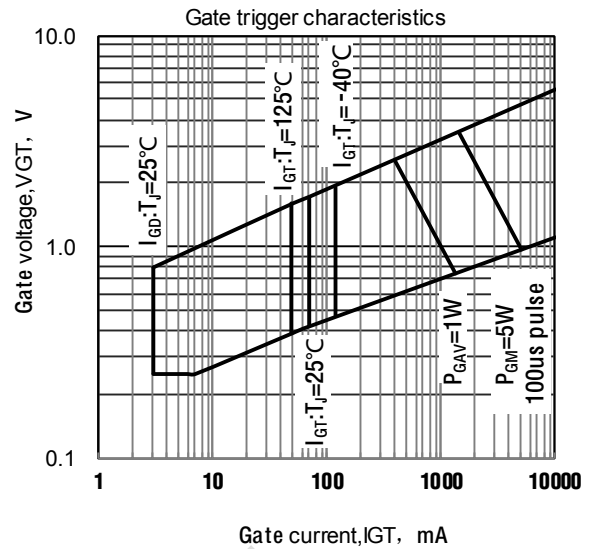
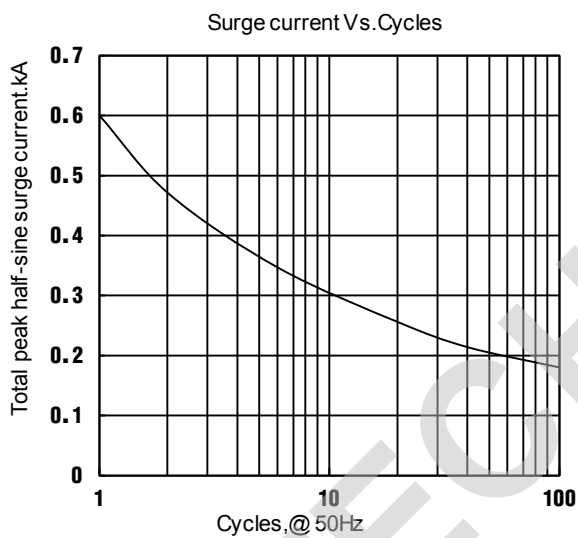
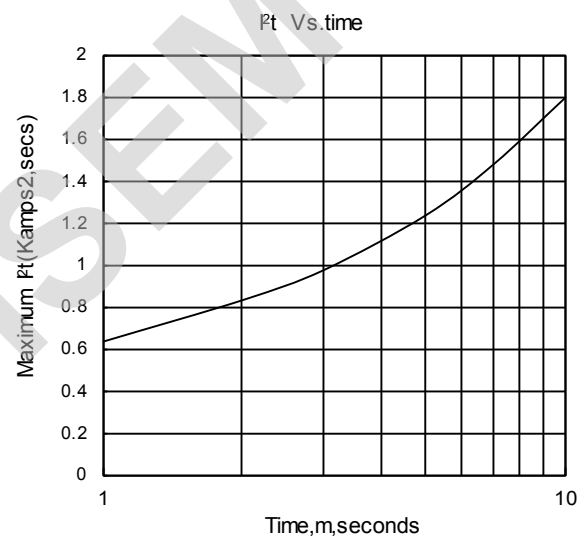
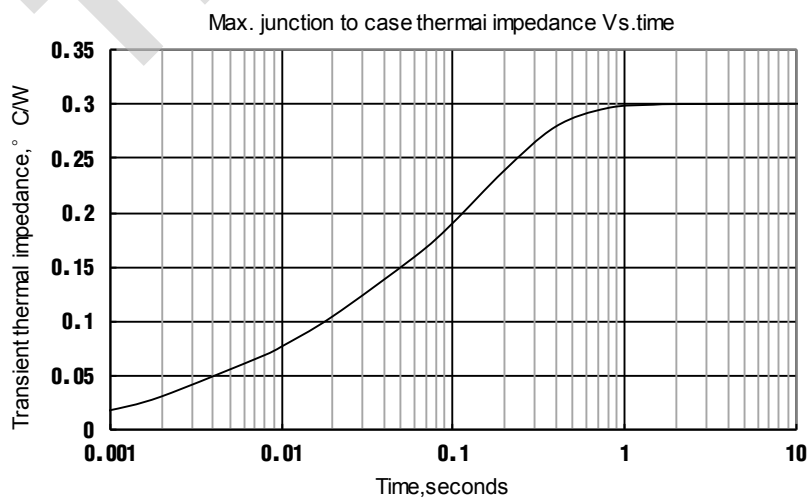
**Features:**

Planar passivated chip
Long-term stability
Non-isolated type

Typical Applications:

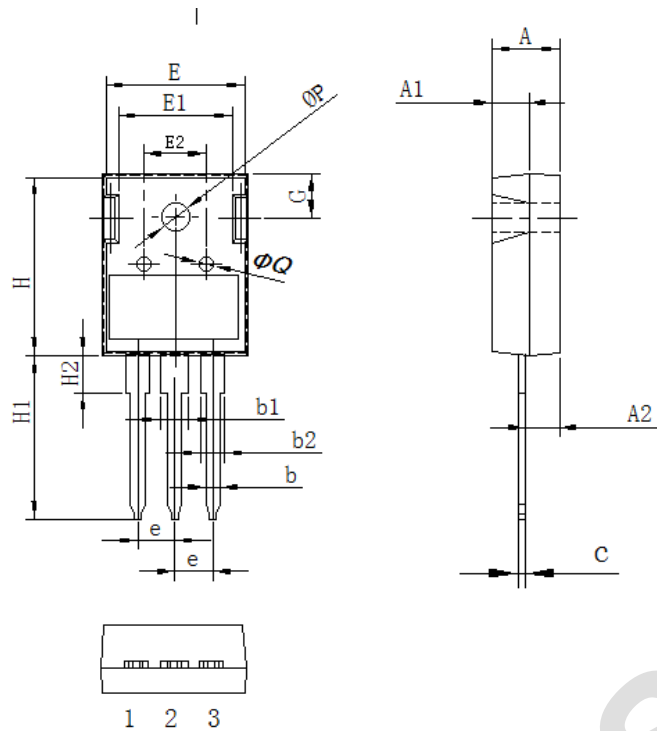
Softstart AC motor control
DC Motor control
Power converter
AC power control

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (C)	VALUE			UNIT
				Min	Type	Max	
I _{T(RMS)}	RMS on-state current	180 half sine wave 50Hz T _C =115°C	150			75	A
V _{DRM} V _{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	tp=10ms	25			1600	V
I _{DRM} I _{RRM}	Repetitive peak off-state current Repetitive peak reverse current	at V _{DRM} /V _{RRM}	25			50	μA
			150			10	mA
I _{TSM}	Surge on-state current	10ms half sine wave	25			600	A
I ² t	I ² t value for fusing					1800	A ² s
V _{TM}	Peak on-state voltage	I _{TM} =100A	25			1.70	V
di/dt	Critical rate of rise of on-state current	I _G =2*I _{GT}	25			150	A/μs
dv/dt	Critical rate of rise of off-state voltage	V _D =2/3V _{DRM} Gate Open	150			1000	V/μs
I _L	Latching current	I _G =1.2 I _{GT}	25			150	mA
I _{GT}	Gate trigger current	V _D =12V R _L =33 Ω	25	30		70	mA
V _{GT}	Gate trigger voltage					1.5	V
I _H	Holding current	I _T =1.0A	25			120	mA
V _{GD}	Non-trigger gate voltage	V _D =V _{DRM} R _L =3.3k Ω	150			0.25	V
I _{GM}	Peak gate current					4	A
P _{G(AV)}	Average gate power dissipation					1	W
P _{GM}	Peak gate power					5	W
R _{th(j-c)}	Thermal resistance Junction to case				0.3		C/W
T _{stg}	Storage junction temperature range			-40		150	C
T _{Vj}	Virtual junction temperature			-40		150	C
T _{OP}	Operation temperature			-40		150	C
Outline	TO-247H						

**Fig1****Fig2****Fig3****Fig4****Fig5**

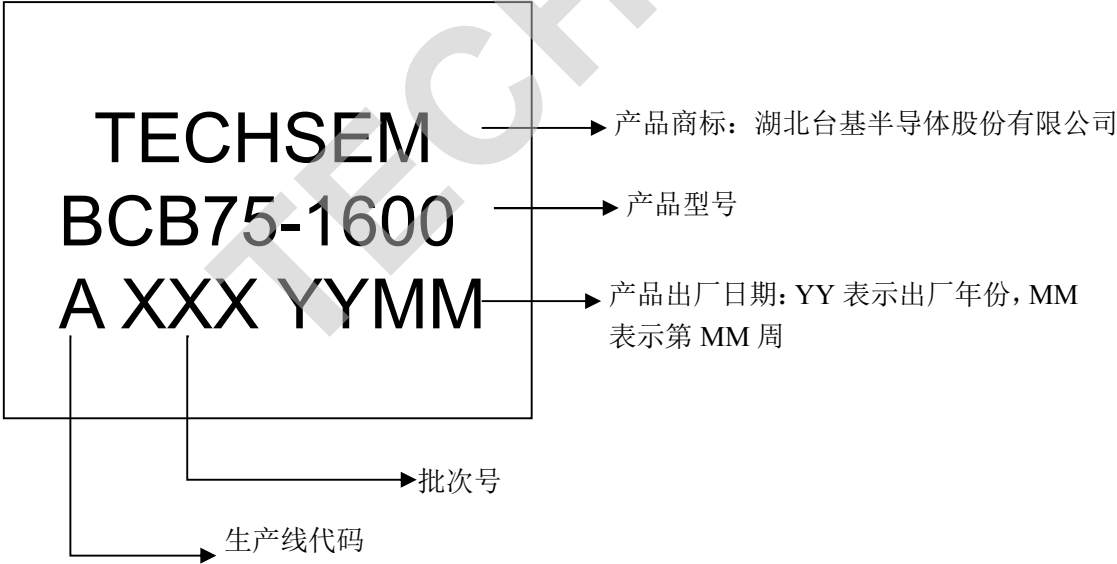
Outline:

TO-247H PACKAGE



Symbol	单位 mm		
	Min	Nom	Max
A	4.80	5.00	5.20
A1	2.80	3.00	3.20
A2	2.20	2.40	2.60
b	1.05	1.20	1.35
b1	2.80	3.00	3.20
b2	1.80	2.00	2.20
c	0.50	0.60	0.70
e	5.35	5.45	5.75
E	15.6	15.8	16.0
E1	12.3	12.5	12.7
E2	6.00	6.20	6.40
H	20.8	21.0	21.2
H1	19.5	20.0	20.5
H2	3.70	4.00	4.30
G	5.70	5.90	6.10
ΦP	3.30	3.50	3.70
ΦQ	2.30	2.50	2.70

Code Designation:



Product Nomenclature:

Type	$I_{T(RMS)}$	V_{DRM}, V_{RRM}	I_{TSM}	T_{jmax}	Marking	Outline
BCB75-1600	75A($T_c=115^{\circ}C$)	1600V	600A	150℃	BCB75-1600	TO-247H