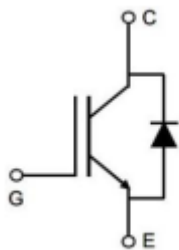


/ Descriptions

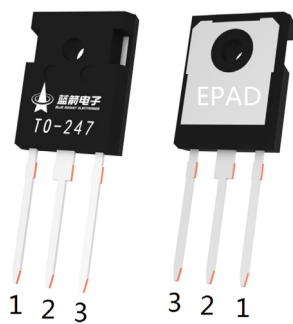
/ Features

/ Applications

/ Equivalent Circuit



/ Pinning



/ Marking

/ Absolute Maximum Ratings(T_a=25)

		θ		
		θ		
		θ		

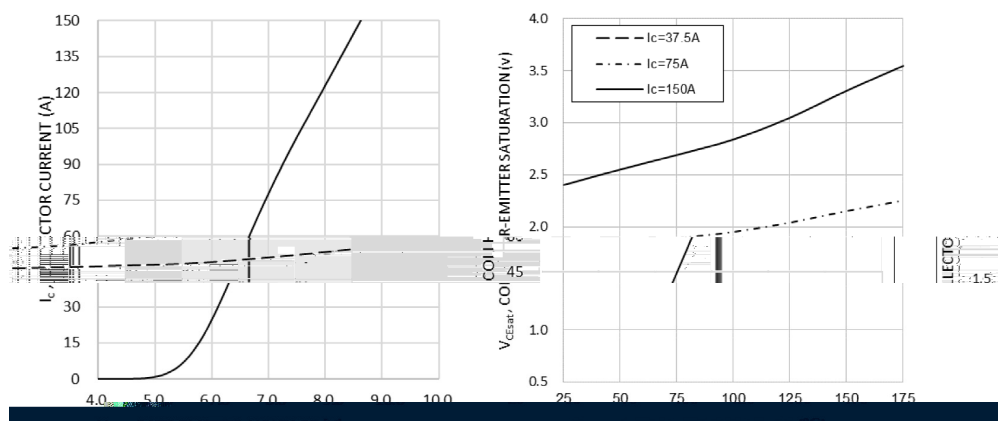
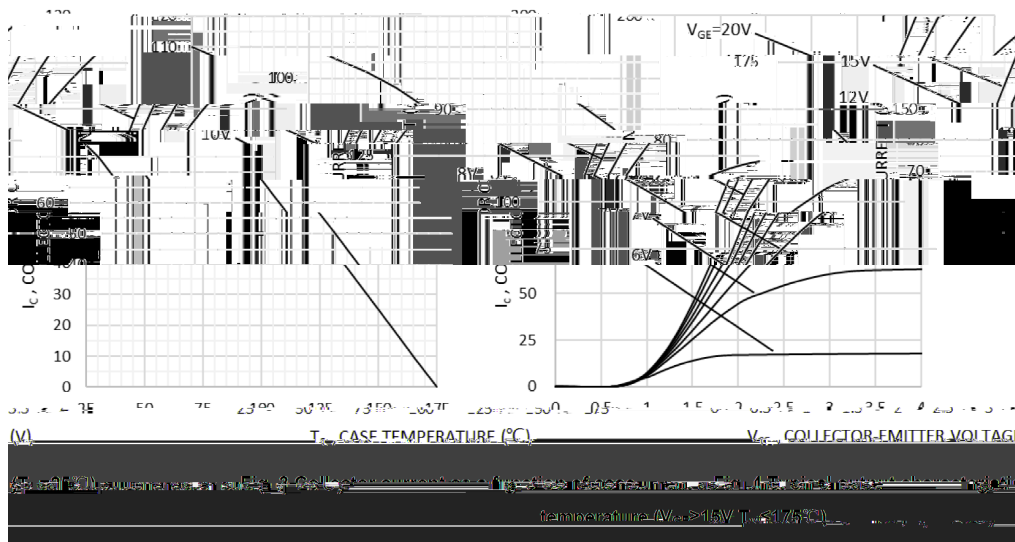
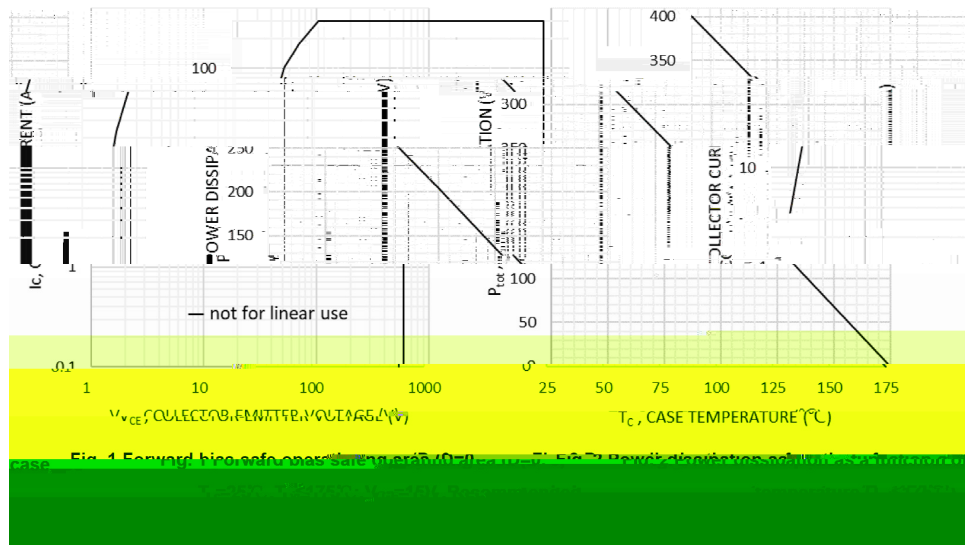
/ Electrical Characteristics(T_c=25)

		μ					

/ Electrical Characteristics(Ta=25)

		Ω				
						μ
						μ

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

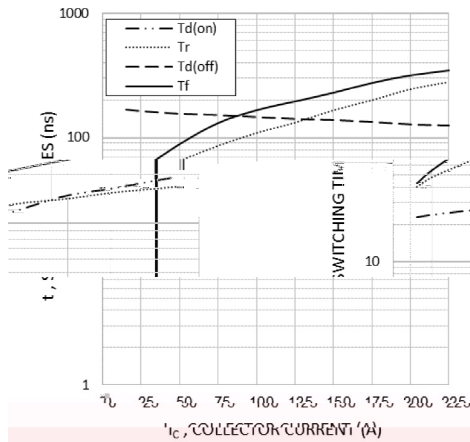


Fig. 7 Typical switching times as a function of

collector current (measured at $V_{CE} = 100V$, $T_{vj} = 25^{\circ}C$).

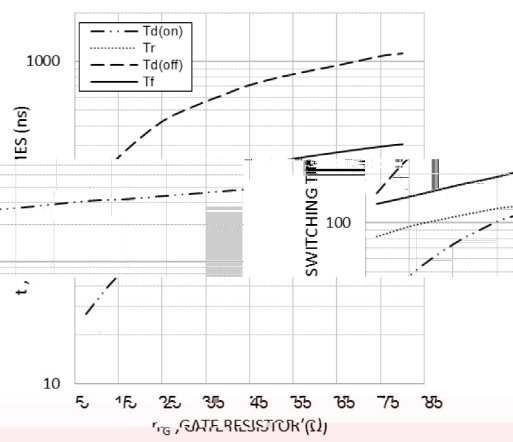


Fig. 8 Typical switching times as a function of gate

resistance (measured at $V_{CE} = 100V$, $T_{vj} = 25^{\circ}C$).

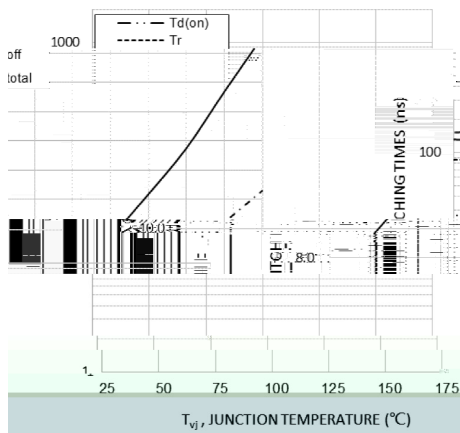


Fig. 9 Typical switching times as a function of

junction temperature (measured at $V_{CE} = 100V$, $I_C = 10A$).

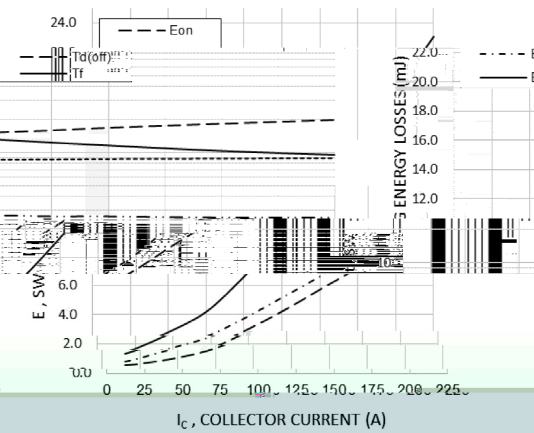


Fig. 10 Typical switching times as a function of

collector current (measured at $V_{CE} = 100V$, $T_{vj} = 25^{\circ}C$).

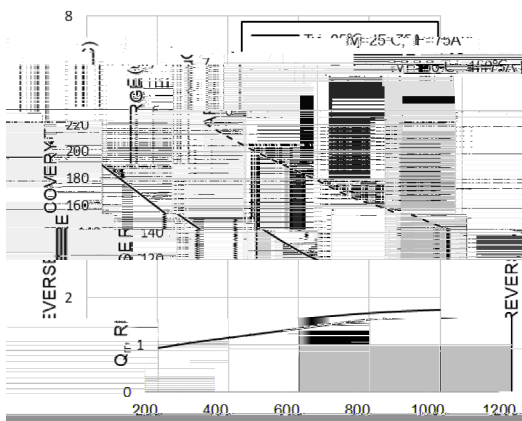


Fig. 11 Typical reverse recovery charge as a

function of collector current (measured at $V_{CE} = 100V$, $T_{vj} = 25^{\circ}C$).

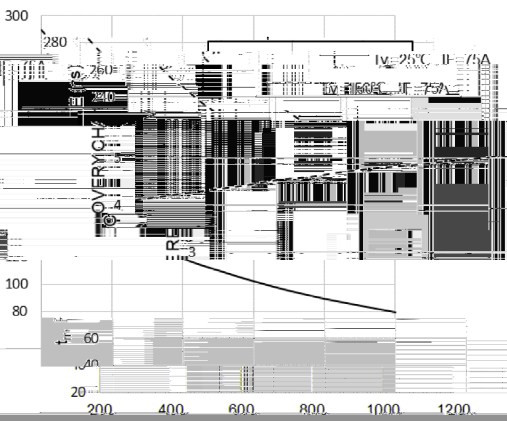
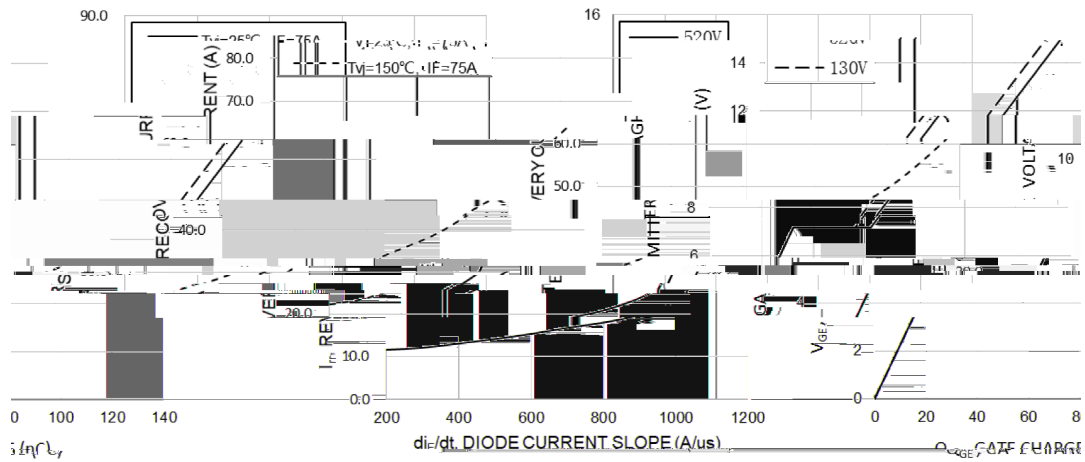


Fig. 12 Typical reverse recovery time as

a function of collector current (measured at $V_{CE} = 100V$, $T_{vj} = 25^{\circ}C$).

/ Electrical Characteristic Curve



charge ($I_F=75A$)

Fig. 13 Typical reverse recovery current as a

Fig. 14 Typical gate

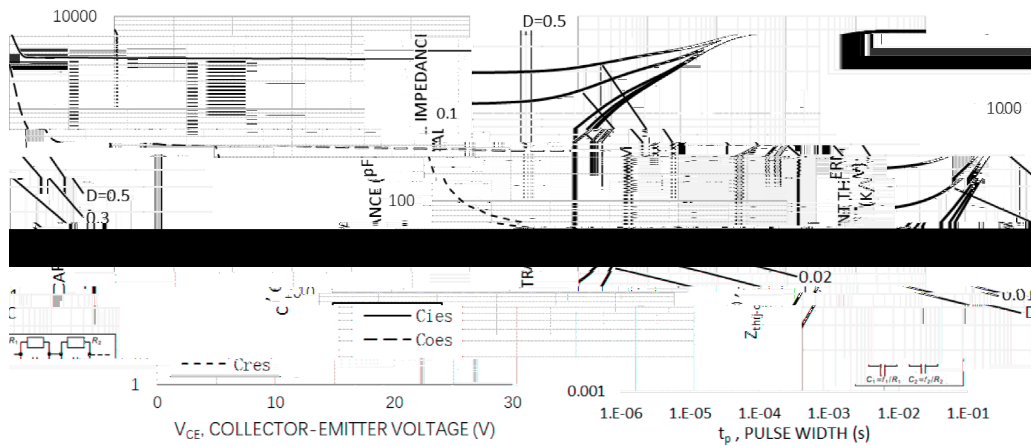


Fig. 15 Typical capacitance as a function of collector-emitter voltage ($V_{GE}=0V$, $f=1MHz$)

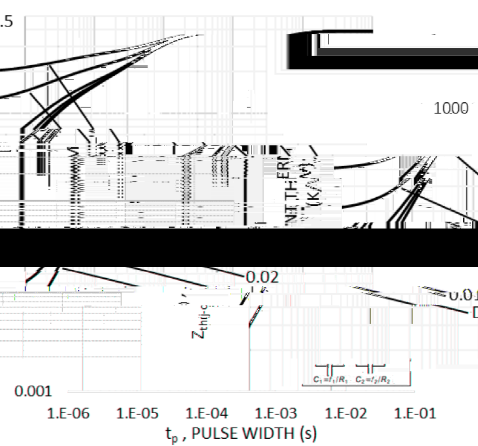
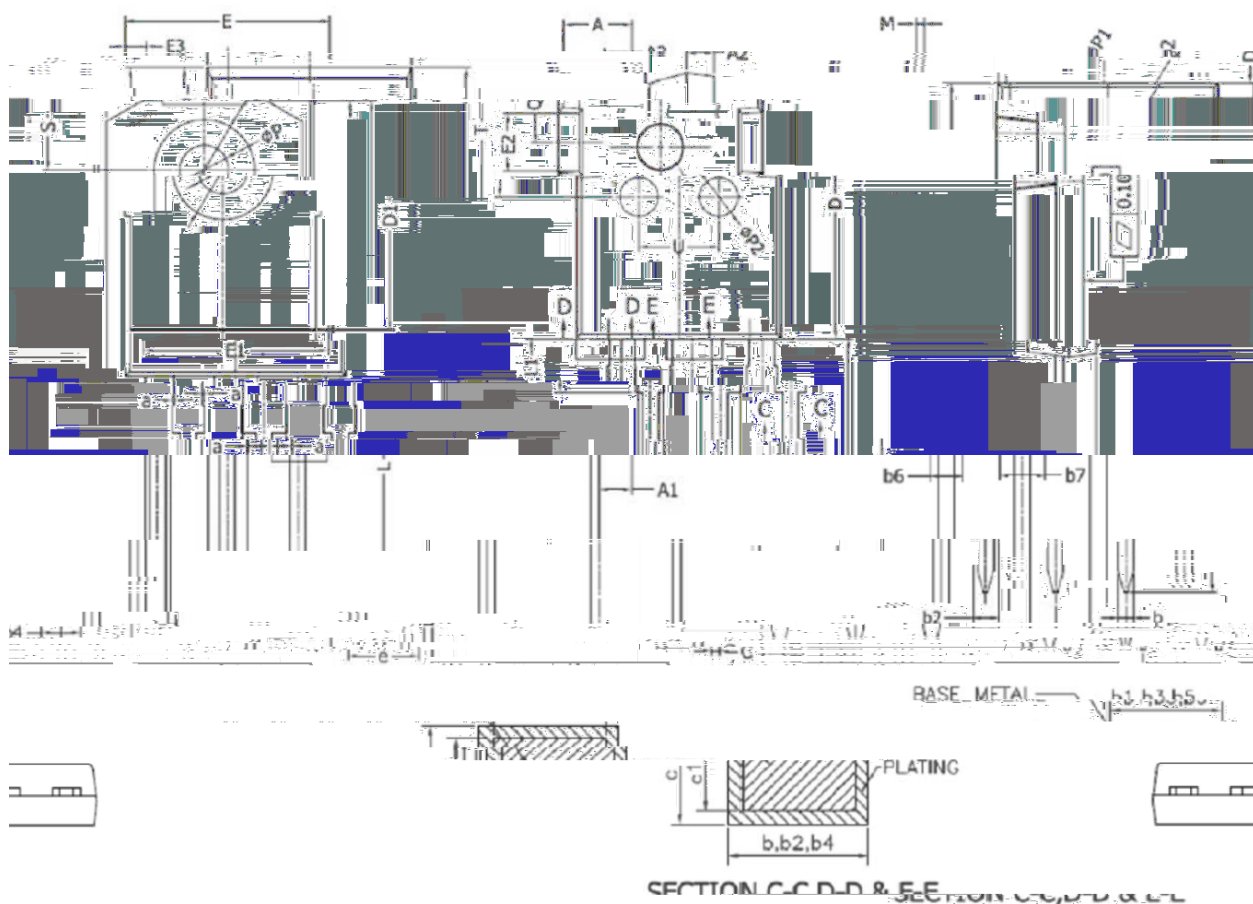


Fig. 16 IGBT transient thermal impedance ($D=tp/T$)

/ Package Dimensions



Symbol	Dimensions In Millimeters			Symbol	Dimensions In Millimeters		
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.
A	4.90	5.00	5.10	E	15.70	15.80	15.90
A1	2.31	2.41	2.51	E1	13.10	13.30	13.50
A2	1.90	2.00	2.10	E2	4.40	4.50	4.60
a	0.00	-	0.15	E3	1.50	1.60	1.70
a'	0.00	-	0.15	e	5.436 BSC		
b	1.16	-	1.26	L	19.80	19.92	20.10
b1	1.15	1.20	1.22	L1	-	-	4.30
b2	1.96	-	2.06	M	0.35	-	0.95
b3	1.95	2.00	2.02	P	3.40	3.50	3.60
b4	2.96	-	3.06	P1	7.00	-	7.40
b5	2.96	3.00	3.02	P2	2.40	2.50	2.60
b6	-	-	2.25	Q	5.60	-	6.00
b7	-	-	3.25	S	6.05	6.15	6.25
c	0.59	-	0.66	T	9.80	-	10.20
c1	0.58	0.60	0.62	U	6.00	-	6.40
D	20.90	21.00	21.10				
D1	16.25	16.55	16.85				
D2	1.05	1.17	1.35				

/ Marking Instructions



GB75N65AHA

$\pm$

°C

	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-247	30	15	450	5	2250	520×44×6	580×158×55	595×300×178

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