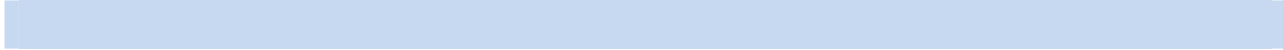




			±	
		⊖		
		⊖		



						±	
		μ					

		Ω				
		$\leq$ $\geq$				μ

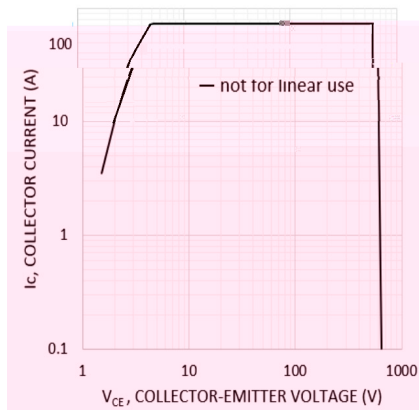


Fig. 1 Collector Current vs.

Collector-Emitter Voltage

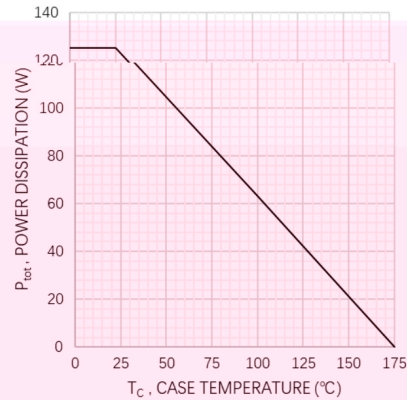


Fig. 2 Power Dissipation

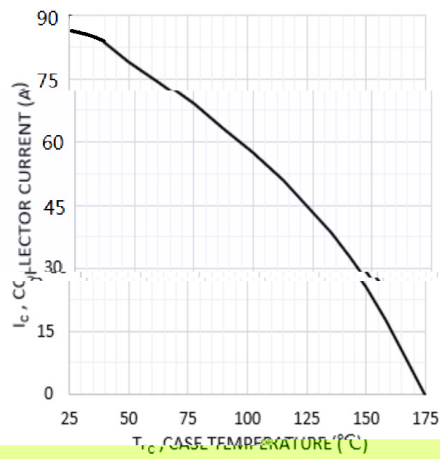


Fig. 3 Collector Current vs. Case Temperature
temperature ($V_{GE} \geq 15V, T_{vj} \leq 175^\circ C$)
 $r_G = 39\Omega$

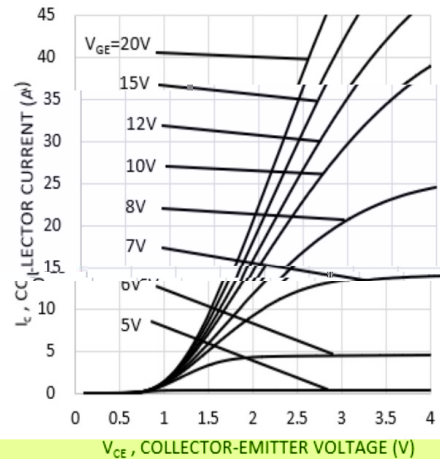


Fig. 4 Typical Output Characteristics ($T_{vj} = 25^\circ C$)

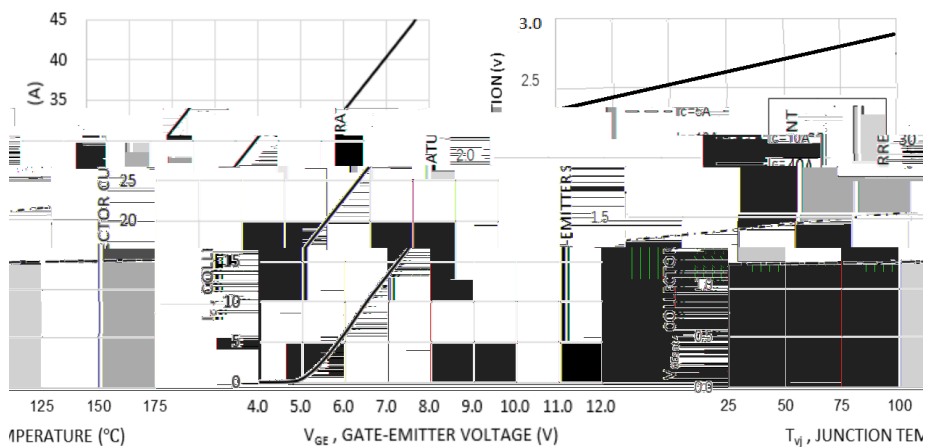
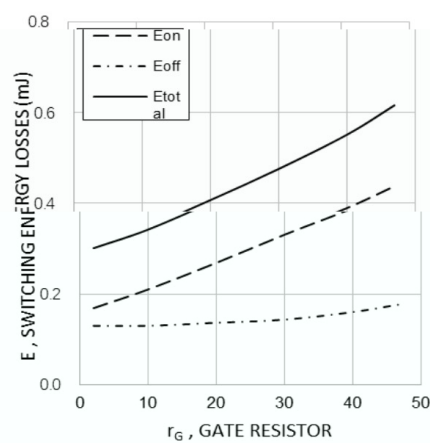
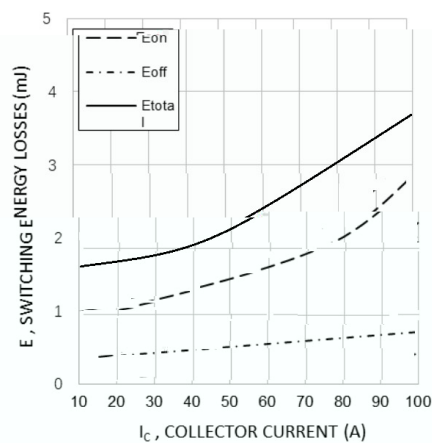
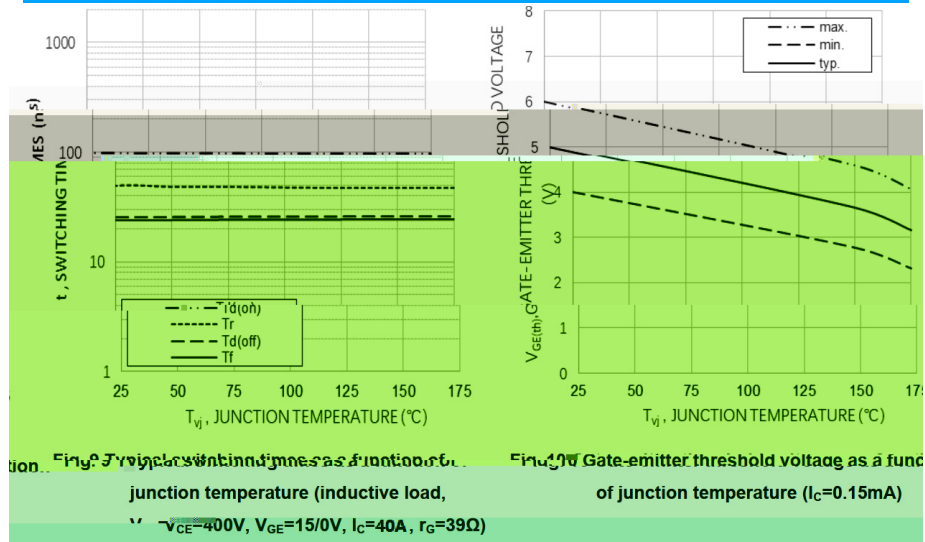
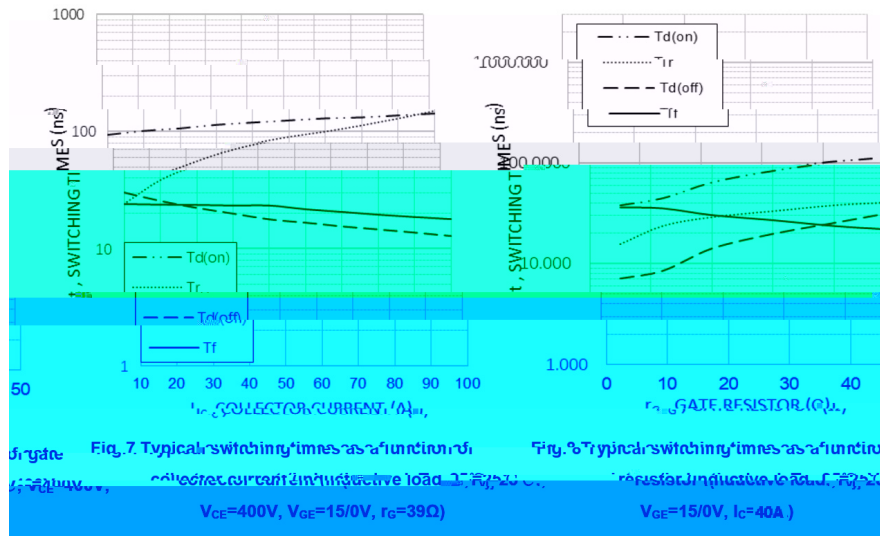


Fig. 5 Typical transfer characteristics ($V_{CE} = 20V$)
saturation voltage
temperature

Fig. 6 Typical collector-emitter
saturation voltage
as a function of junction temperature
($V_{GE} = 15V$)



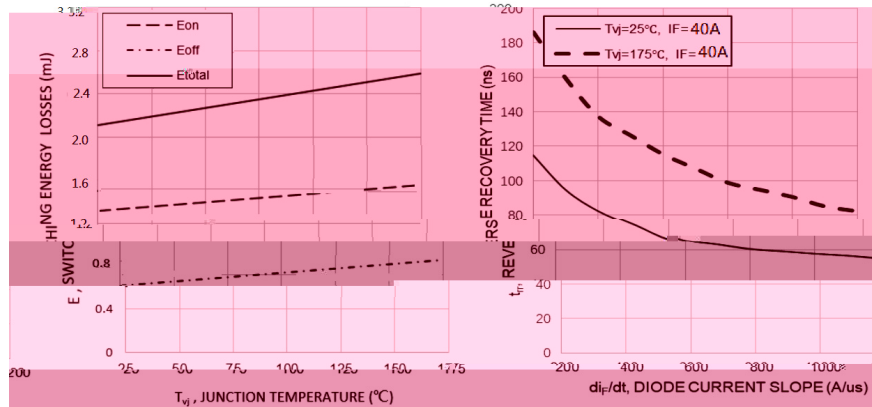


Fig. 13 Typical switching energy losses as a function of junction temperature (inductive load, $V_{CE}=400V$, $V_{GE}=50V$, $I_C=40A$, $r_s=28m\Omega$)

Fig. 14 Typical reverse recovery time as a function of current slope ($V_{GE}=50V$)

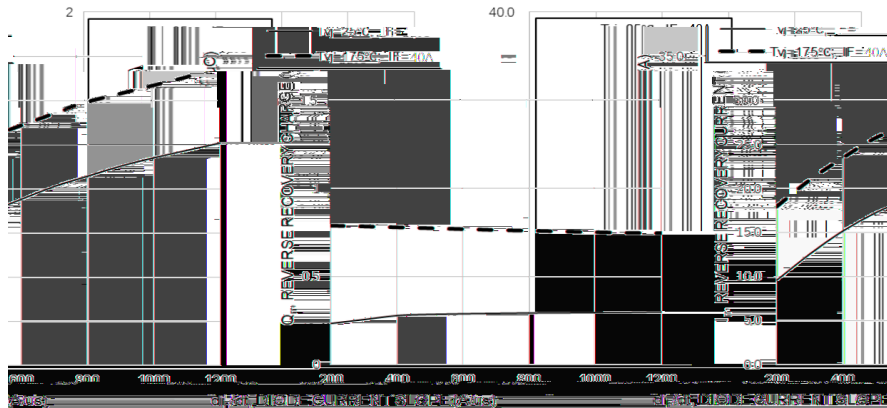


Fig. 15 Typical reverse recovery charge as a function of diode current slope ($V_{GE}=50V$)

Fig. 16 Typical reverse recovery current as a function of diode current slope ($V_{GE}=50V$)

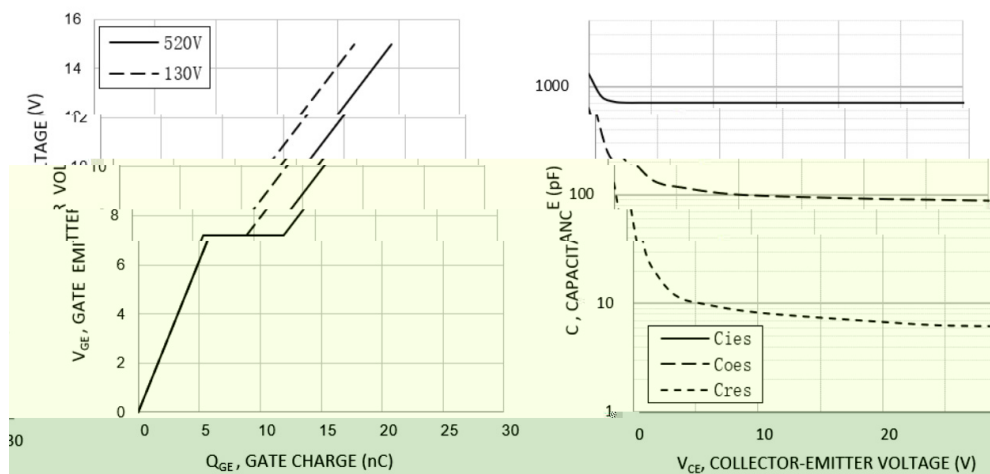
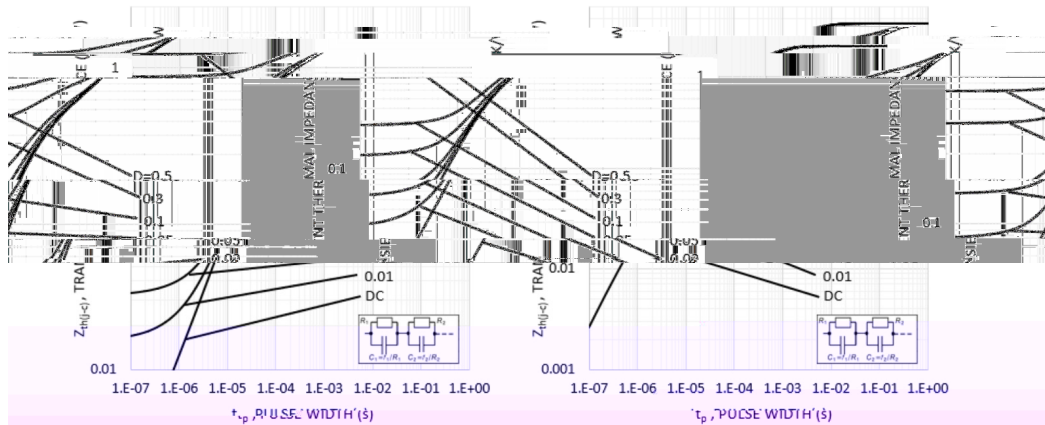
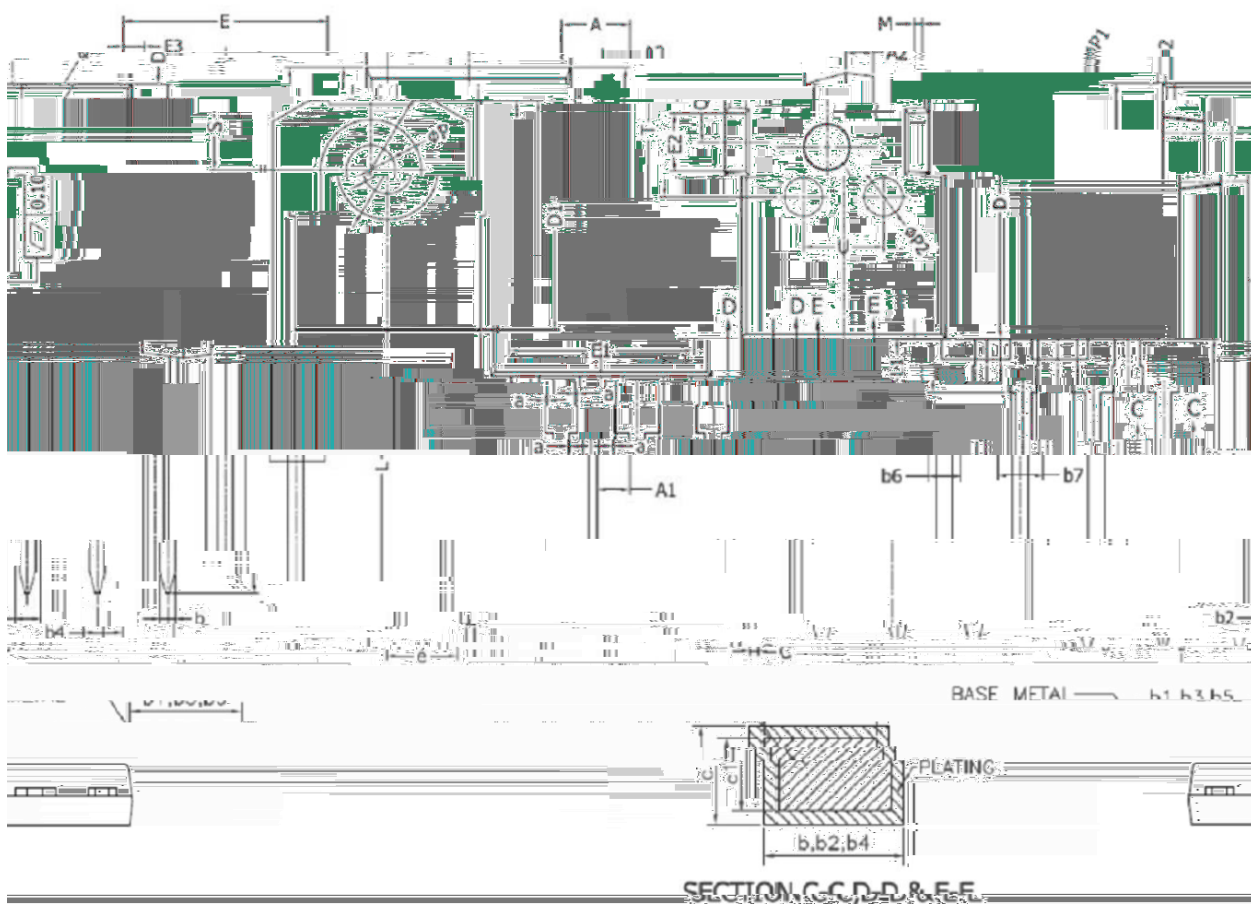


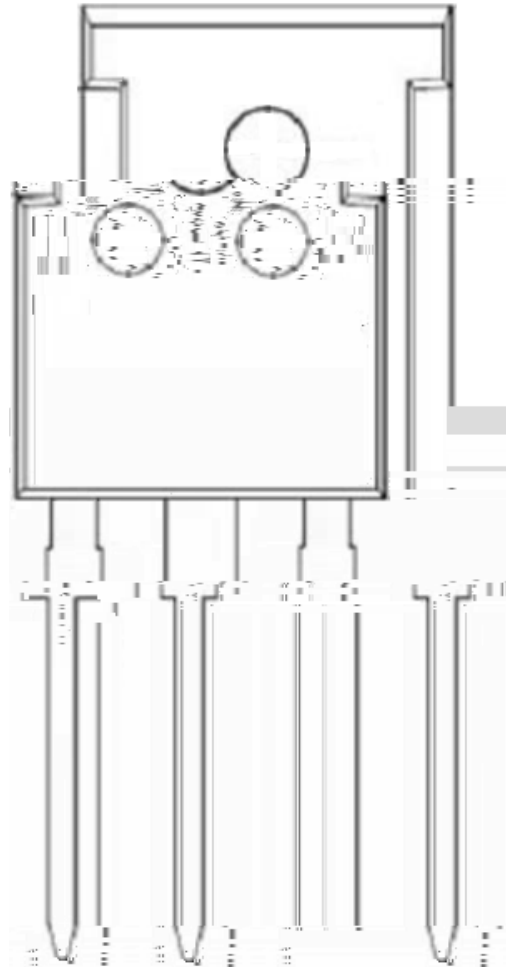
Fig. 17 Typical gate charge ($I_C=40A$)

Fig. 18 Typical capacitance as a function of collector-emitter voltage ($I_C=40A$)

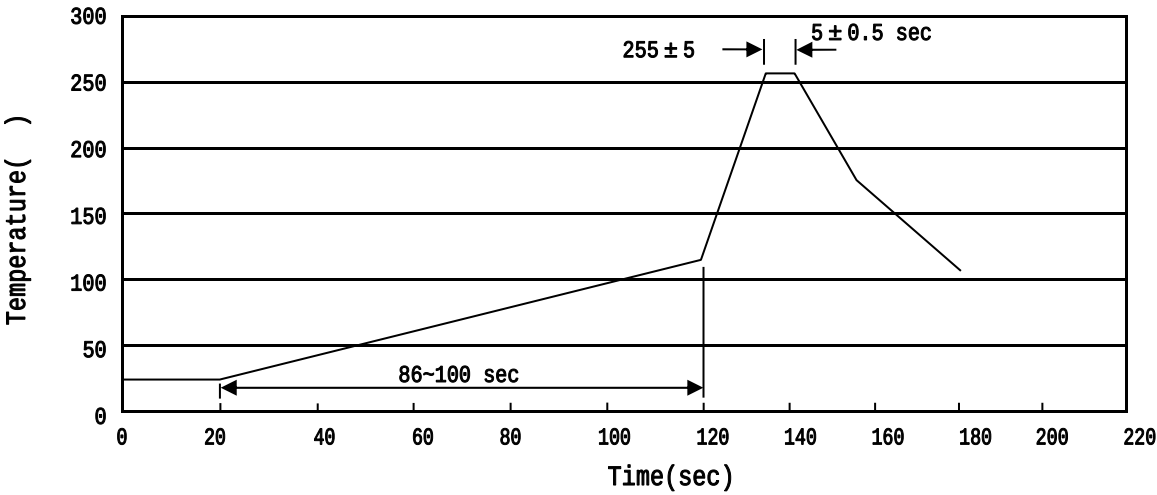




Symbol	Dimensions In Millimeters			Symbol	Dimensions In Millimeters		
	MIN.	NOM.	MAX.		MIN.	NOM.	MAX.
A	4.90	5.00	5.10	E	15.70	15.80	15.90
A1	2.31	2.41	2.51	E1	13.10	13.30	13.50
A2	1.90	2.00	2.10	E2	4.40	4.50	4.60
a	0.00	-	0.15	E3	1.50	1.60	1.70
a'	0.00	-	0.15	e	5.436 BSC		
b	1.16	-	1.26	L	19.80	19.92	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				



GB40L65AHA



± ± ± ±

± ±

	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