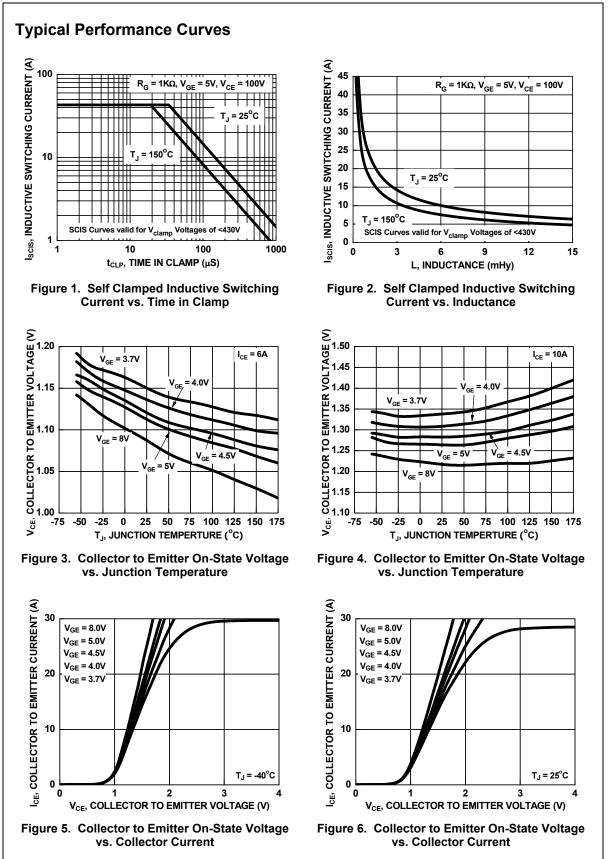


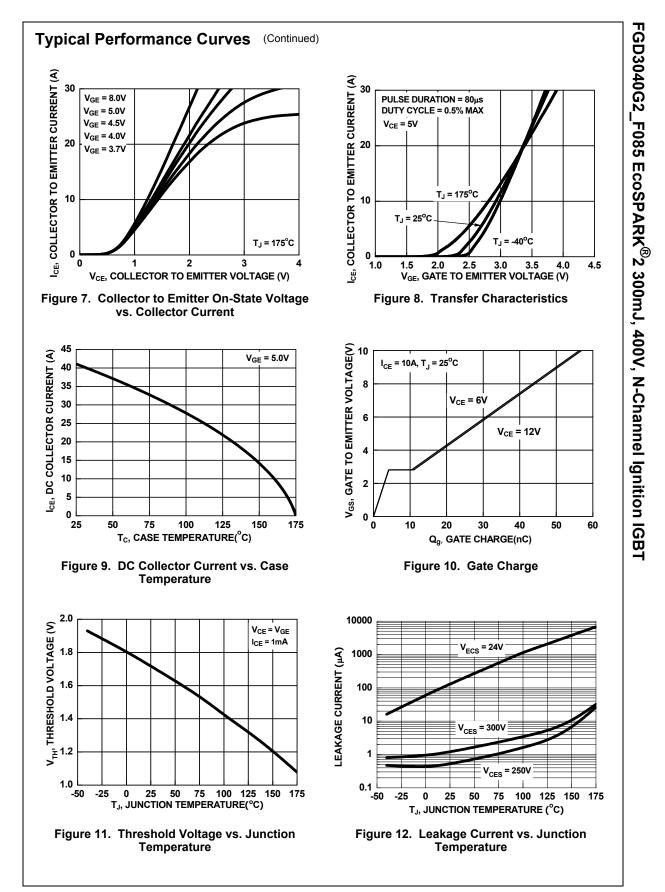
Symbol				rameter				Ratings		s	Units	
SV <sub>CER</sub>	Collector t	Collector to Emitter Breakdown Voltage							400		V	
3V <sub>ECS</sub>	Emitter to	Emitter to Collector Voltage - Reverse Battery Condition (I <sub>C</sub> = 10mA)					28			V		
SCIS25	Self Clamping Inductive Switching Energy (Note 1)					300			mJ			
SCIS150	Self Clamping Inductive Switching Energy (Note 2)					170		mJ				
C25	Collector Current Continuous, at $V_{GE} = 5.0V$ , $T_C = 25^{\circ}C$					41		Α				
:110	Collector Current Continuous, at $V_{GE}$ = 5.0V, $T_{C}$ = 110°C					25.6		Α				
GEM	Gate to Emitter Voltage Continuous					±10		V				
D	Power Dissipation Total, at $T_c = 25^{\circ}C$				150			W				
	Power Dissipation Derating, for $T_{C} > 25^{\circ}C$				1			W/ºC				
J	Operating Junction Temperature Range					-55 to +175			°(			
STG	-	unction Temperature R		of 1 Group f		2)		-5	5 to +1	15	°(	
L		d Temp. for Soldering (			iom case for 10	5)			300		°C C°	
PKG		Idering according to JE trostatic Discharge Vo			00					260		
SD	-	trostatic Discharge Vo		•			-	4		kV kV		
_	1	_	-						Z			
acka	ige Mar	king and Orde	ering	Inform	nation							
Device	Marking	Device	Pa	ckage	Reel Size	•	Tape \	Nidth		Quant	ity	
	_						16mm				500 units	
lectr	3040G2 ical Ch	FGD3040G2_F085 aracteristics ⊤ Parameter		D252 C unless o	330mm therwise noted Test Condit	tions	16n	nm Min	Тур	2500 u Max		
Symbol	ical Ch	aracteristics <b>⊤</b>			therwise noted	tions	16n			1		
Electr Symbol	ical Ch   te Chara	aracteristics ⊤ Parameter	<sup>-</sup> <sub>A</sub> = 25°	C unless o I <sub>CE</sub> = 2mA R <sub>GE</sub> = 1Ks	therwise noted <b>Test Condit</b> $\Lambda, V_{GE} = 0,$ $\Omega,$	tions	16n			1		
Electr Symbol Off Sta	ical Ch   te Chara	aracteristics ⊤ Parameter cteristics	<sup>-</sup> <sub>A</sub> = 25°	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Kg$ $T_J = -40 to$	therwise noted Test Condit $\Lambda, V_{GE} = 0, \Omega, \Omega, \Omega, D = 150^{\circ}C$	tions	16n	Min	Тур	Max	Units	
Electr Symbol Off Sta	ical Ch te Chara	aracteristics ⊤ Parameter cteristics	<sup>™</sup> <sub>A</sub> = 25° ∕oltage	C unless o $I_{CE} = 2mA$ $R_{GE} = 1K_{2}$ $T_{J} = -40 \text{ tr}$ $R_{GE} = 0,$ $T_{J} = -40 \text{ tr}$	therwise noted Test Condit $\Omega, V_{GE} = 0, \Omega, \Omega, \Omega, 150^{\circ}C$ $A, V_{GE} = 0V, \Omega, 00000000000000000000000000000000$	tions	16n	Min	Тур	Max	Unit	
Electr Symbol Off Sta	ical Ch te Chara Collector t	aracteristics T Parameter cteristics o Emitter Breakdown V	A = 25° ∕oltage	C unless o $I_{CE} = 2mA$ $R_{GE} = 1K_{2}$ $T_{J} = -40 \text{ tr}$ $R_{GE} = 0,$ $T_{J} = -40 \text{ tr}$	therwise noted Test Condit $\Omega_{r}, V_{GE} = 0, \Omega_{r}, \Omega_{r}, 0.150^{\circ}C$ $A, V_{GE} = 0V, 0.150^{\circ}C$ $A, V_{GE} = 0V, 0.000$	lions	16n	Min 370	<b>Typ</b> 400	<b>Max</b> 430	Unit:	
Electr Symbol Off Sta BV <sub>CER</sub> BV <sub>CES</sub>	ical Ch te Chara Collector t Collector t Emitter to	aracteristics T Parameter cteristics o Emitter Breakdown V	√oltage √oltage	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Kg$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2t$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D 150^{\circ}C$ $IA, V_{GE} = 0V,$ $D 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA			Min 370 390	<b>Typ</b> 400	<b>Max</b> 430	V V	
Symbol Off Sta VCER VCES VECS VGES	ical Ch te Chara Collector t Collector t Emitter to Gate to Er	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta	A = 25° Voltage Voltage Voltage	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Kg$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2t$	therwise noted Test Condit $\Omega, V_{GE} = 0, \Omega, \Omega,$	T <sub>J</sub> = 2	25°C	Min 370 390 28	<b>Typ</b> 400 420 -	<b>Max</b> 430	V V V	
Electr Symbol Off Sta 3V <sub>CER</sub> 3V <sub>CES</sub> 3V <sub>ECS</sub> 3V <sub>GES</sub>	ical Ch te Chara Collector t Collector t Emitter to Gate to Er	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V	A = 25° Voltage Voltage Voltage	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2i$ $V_{CE} = 250C$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D = 150^{\circ}C$ $A, V_{GE} = 0V,$ $D = 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA $V, R_{GE} = 1K\Omega$	$T_{J} = 2$ $T_{J} = 1$	25°C 50°C	Min 370 390 28 ±12	<b>Typ</b> 400 420 -	Max 430 450 -	V V V V	
Symbol Off Sta V <sub>CER</sub> V <sub>CES</sub> V <sub>ECS</sub> V <sub>GES</sub>	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta nitter Breakdown Volta	<pre>//A = 25°</pre> //oltage //oltage //oltage age rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Kg$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2t$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D = 150^{\circ}C$ $A, V_{GE} = 0V,$ $D = 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA $V, R_{GE} = 1K\Omega$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$	25°C 50°C 55°C	Min 370 390 28 ±12 -	<b>Typ</b> 400 420 -	Max 430 450 - - 25	V V V V μA mA	
Symbol Symbol Off Sta VCER VCES VECS VECS CER ECS	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Emitter to	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta nitter Breakdown Volta o Emitter Leakage Cur	<pre>//A = 25°</pre> //oltage //oltage //oltage age rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2i$ $V_{CE} = 250C$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D = 150^{\circ}C$ $A, V_{GE} = 0V,$ $D = 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA $V, R_{GE} = 1K\Omega$	$T_{J} = 2$ $T_{J} = 1$	25°C 50°C 55°C	Min 370 390 28 ±12 -	<b>Typ</b> 400 420 -	Max 430 450 - 25 1	Units V V V ν	
Symbol Off Sta VCER VCES VECS VECS VECS CER ECS R	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Emitter to	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta nitter Breakdown Volta	<pre>//A = 25°</pre> //oltage //oltage //oltage age rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2i$ $V_{CE} = 250C$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D = 150^{\circ}C$ $A, V_{GE} = 0V,$ $D = 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA $V, R_{GE} = 1K\Omega$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$	25°C 50°C 55°C	Min 370 390 28 ±12 - - -	<b>Typ</b> 400 420 -	Max 430 450 - 25 1 1	V V V V μA mA	
Electr Symbol Off Sta VCER VCES VECS VECS VGES CER ECS 21	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Emitter to Series Ga	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta nitter Breakdown Volta o Emitter Leakage Cur	<pre>//A = 25°</pre> //oltage //oltage //oltage age rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2i$ $V_{CE} = 250C$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D = 150^{\circ}C$ $A, V_{GE} = 0V,$ $D = 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA $V, R_{GE} = 1K\Omega$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$	25°C 50°C 55°C	Min 370 390 28 ±12 - - - -	<b>Typ</b> 400 420 - ±14	Max 430 450 - 25 1 1	V V V V μA mA	
Electr Symbol Off Sta $3V_{CER}$ $3V_{CES}$ $3V_{ECS}$ $3V_{GES}$ CER ECS $R_1$ $R_2$	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Emitter to Series Ga Gate to Er	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta o Emitter Leakage Cur Collector Leakage Cur te Resistance	<pre>//A = 25°</pre> //oltage //oltage //oltage age rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2i$ $V_{CE} = 250C$	therwise noted Test Condit $\Lambda, V_{GE} = 0,$ $\Omega,$ $D = 150^{\circ}C$ $A, V_{GE} = 0V,$ $D = 150^{\circ}C$ $nA, V_{GE} = 0V,$ mA $V, R_{GE} = 1K\Omega$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$	25°C 50°C 55°C	Min 370 390 28 ±12 - - - - - - -	<b>Typ</b> 400 420 - ±14	Max 430 450 - 25 1 1 40 -	Units V V V V μA mA Ω	
Electr Symbol Off Sta 3V <sub>CER</sub> 3V <sub>CES</sub> 3V <sub>ECS</sub> 3V <sub>ECS</sub> 3V <sub>ECS</sub> 3V <sub>GES</sub> cER ECS 31 32 2 0n Sta	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Emitter to Series Ga Gate to Er te Chara	aracteristics T Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta o Emitter Leakage Cur Collector Leakage Cur te Resistance nitter Resistance	A = 25° Voltage Voltage Voltage age rrent rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 tc$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm2i$ $V_{CE} = 250C$	therwise noted Test Condit $\Lambda, V_{GE} = 0, \Omega, \Omega,$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$ $T_{J} = 1$	25°C 50°C 25°C 25°C 50°C	Min 370 390 28 ±12 - - - - - - -	<b>Typ</b> 400 420 - ±14	Max 430 450 - 25 1 1 40 -	Units V V V V μA mA Ω	
Electr Symbol Off Sta 3V <sub>CER</sub> 3V <sub>CES</sub> 3V <sub>ECS</sub> 3V <sub>ECS</sub> 3V <sub>ECS</sub> 3V <sub>GES</sub> ECR ECS 81 82 Dn Sta ( <u>CE(SAT)</u>	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Emitter to Series Ga Gate to Er te Chara Collector t	aracteristics	A = 25° Voltage Voltage Voltage rrent rrent rrent	C unless o $I_{CE} = 2mA$ $R_{GE} = 1Ki$ $T_{J} = -40 tc$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm 2i$ $V_{CE} = 250$ $V_{EC} = 24V$ $I_{CE} = 6A, V$	therwise noted Test Condit $\Lambda, V_{GE} = 0, \Omega, \Omega,$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$ $T_{J} = 1$	25°C 50°C 25°C 25°C 50°C	Min           370           390           28           ±12           -           -           -           -           10K	Typ 400 420 - ±14 - - - 120 -	Max 430 450 - 25 1 1 40 - 30K	Units           V           V           V           μA           mA           Ω           Ω	
Electr Symbol Off Sta $3V_{CER}$ $3V_{CES}$ $3V_{ECS}$ $3V_{GES}$ CER ECS $R_1$ $R_2$	ical Ch te Chara Collector t Collector t Emitter to Gate to Er Collector t Series Ga Gate to Er te Chara Collector t	aracteristics Parameter cteristics o Emitter Breakdown V o Emitter Breakdown V Collector Breakdown Volta o Emitter Leakage Cur Collector Leakage Cur Collector Leakage Cur te Resistance nitter Resistance nitter Resistance o Emitter Saturation V	A = 25° /oltage /oltage /oltage age rrent rrent oltage oltage	C unless o $I_{CE} = 2mA$ $R_{GE} = 1K_{E}$ $T_{J} = -40 \text{ tr}$ $I_{CE} = 10m$ $R_{GE} = 0,$ $T_{J} = -40 \text{ tr}$ $I_{CE} = -20n$ $T_{J} = 25^{\circ}C$ $I_{GES} = \pm 21$ $V_{CE} = 250$ $V_{EC} = 24V$ $I_{CE} = 6A, V$ $I_{CE} = 10A$	therwise noted Test Condit $\Lambda, V_{GE} = 0, \Omega, \Omega,$	$T_{J} = 2$ $T_{J} = 1$ $T_{J} = 2$ $T_{J} = 1$ $T_{J} = 1$	25°C 50°C 50°C 50°C 25°C	Min 370 390 28 ±12 - - - 10K -	Typ 400 420 - ±14 - - 120 - 1.15	Max 430 450 - 25 1 1 40 - 30K 1.25	Units           V           V           V           V           μA           mA           Ω           Ω           Ω           V	

Symbol	Parameter	Test Condi	tions	Min	Тур	Мах	Units
Dynam	ic Characteristics						
Q <sub>G(ON)</sub>	Gate Charge	I <sub>CE</sub> = 10A, V <sub>CE</sub> = 12V, V <sub>GE</sub> = 5V		-	21	-	nC
V	Cata to Emitter Threshold Voltage	$I_{CE}$ = 1mA, $V_{CE}$ = $V_{GE}$ ,	T <sub>J</sub> = 25 <sup>o</sup> C	1.3	1.7	2.2	v
V <sub>GE(TH)</sub>	Gate to Emitter Threshold Voltage		T <sub>J</sub> = 150 <sup>o</sup> C	0.75	1.2	1.8	v
V <sub>GEP</sub>	Gate to Emitter Plateau Voltage	V <sub>CE</sub> = 12V, I <sub>CE</sub> = 10A		-	2.8	-	V
Switch	Ing Characteristics         Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$						
t	Current Turn-On Delay Time-Resistive	$V_{2} = 14V_{1}P_{2} = 10$		_	0.0	1	
t <sub>d(ON)R</sub> t <sub>rR</sub>	Current Turn-On Delay Time-Resistive Current Rise Time-Resistive	$V_{GE} = 5V, R_G = 1K\Omega$		-	0.9 1.9	4 7	μs μs
		$V_{GE}^{-} = 5V, R_{G}^{-} = 1K\Omega$ $T_{J} = 25^{\circ}C,$ $V_{CE} = 300V, L = 1mH,$					
t <sub>rR</sub>	Current Rise Time-Resistive	$V_{GE}^{\circ}$ = 5V, $R_{G}^{\circ}$ = 1K $\Omega$ T <sub>J</sub> = 25°C,			1.9	7	μs
t <sub>rR</sub> t <sub>d(OFF)L</sub> t <sub>fL</sub>	Current Rise Time-Resistive Current Turn-Off Delay Time-Inductive	$V_{GE}^{GE} = 5V, R_{G}^{T} = 1K\Omega$ $T_{J} = 25^{\circ}C,$ $V_{CE} = 300V, L = 1mH,$ $V_{GE} = 5V, R_{G} = 1K\Omega$		-	1.9 4.8	7 15	μs μs

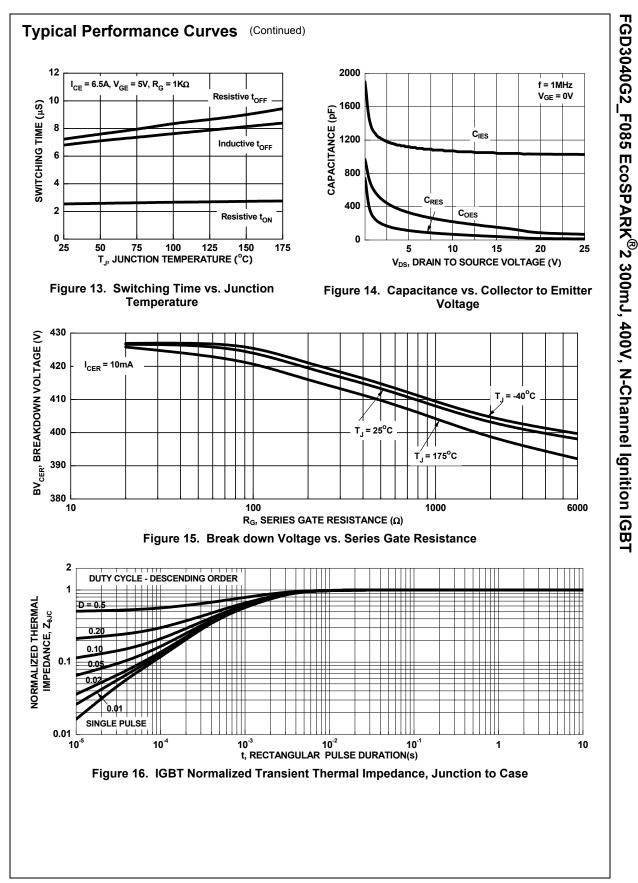
1: Self Clamping Inductive Switching Energy ( $E_{SCIS25}$ ) of 300 mJ is based on the test conditions that starting Tj=25°C; L=3mHy, I<sub>SCIS</sub>=14.2A,V<sub>CC</sub>=100V during inductor charging and V<sub>CC</sub>=0V during the time in clamp.

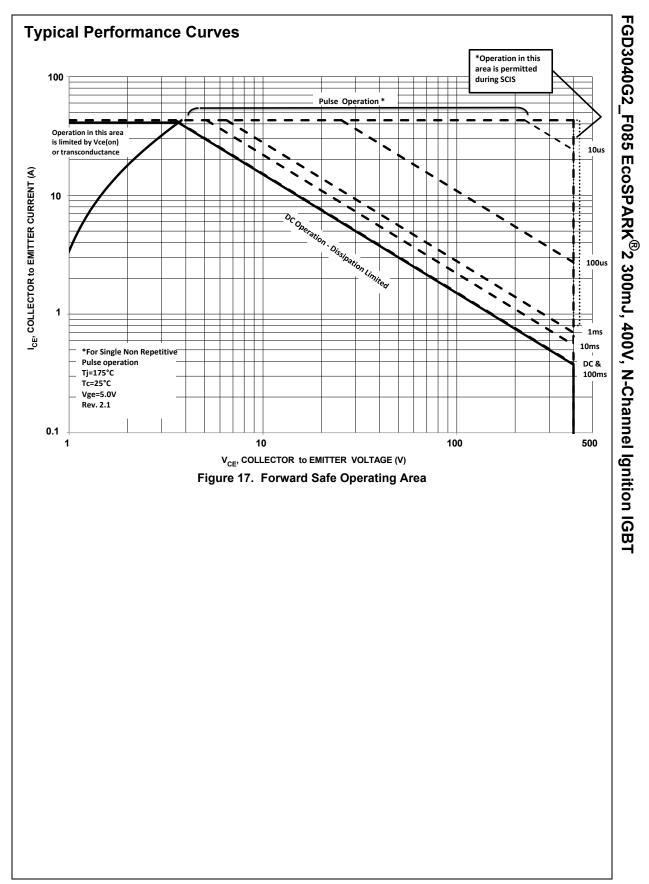
2: Self Clamping Inductive Switching Energy ( $E_{SCIS150}$ ) of 170 mJ is based on the test conditions that starting Tj=150°C; L=3mHy, I<sub>SCIS</sub>=10.8A,V<sub>CC</sub>=100V during inductor charging and V<sub>CC</sub>=0V during the time in clamp.

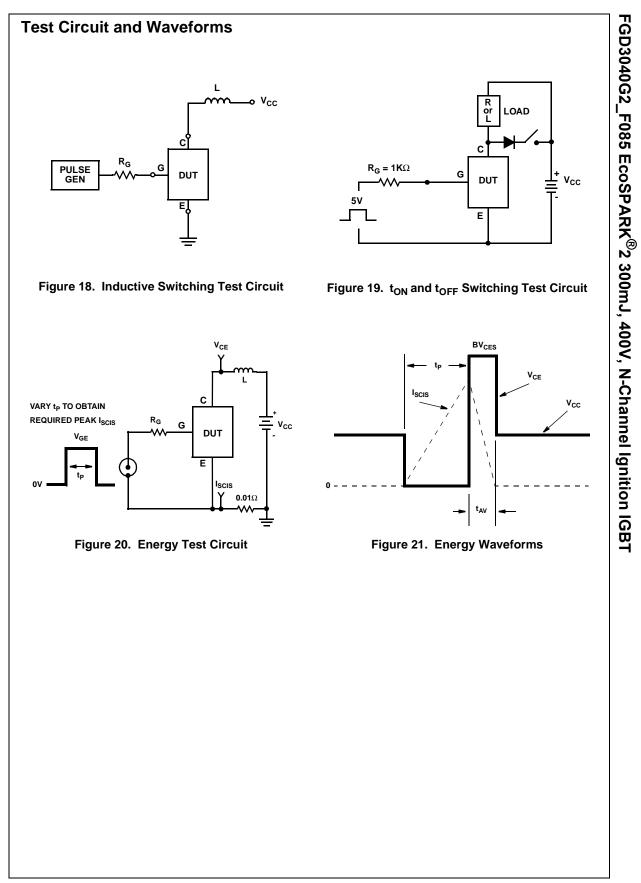


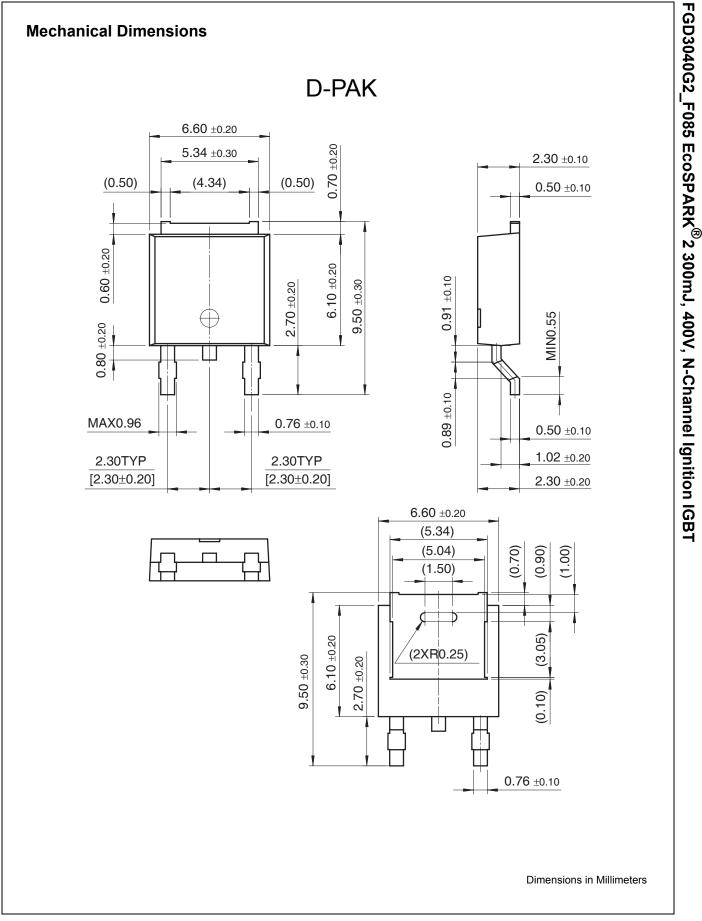


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