

Is Now Part of

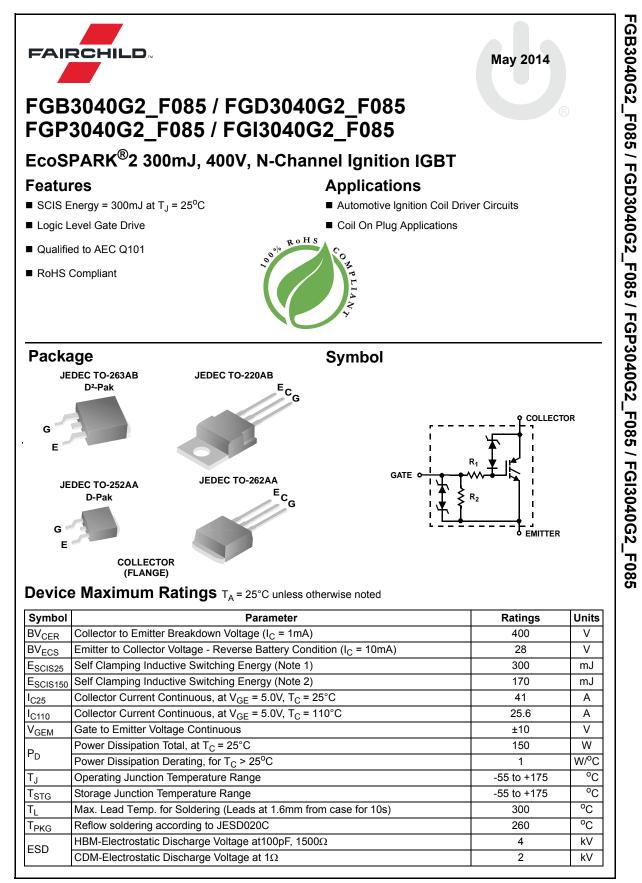


# **ON Semiconductor**®

# To learn more about ON Semiconductor, please visit our website at <u>www.onsemi.com</u>

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Devic	e Marking	Device	Package Reel Size Tap		Tape Width	۱	Quantity	
FGE	GB3040G2 FGB3040G2_F085		TO-263AB	TO-263AB 330mm			800	
FGE	03040G2	FGD3040G2_F085	TO-252AA	330mm	16mm		250	00
FGF	23040G2	FGP3040G2_F085	TO-220AB	Tube	N/A		50	)
FGI	3040G2	FGI3040G2_F085	TO-262AA	Tube	N/A		50	)
Electr	ical Char	<b>acteristics</b> T <sub>A</sub> = 25°	C unless otherwise not	ed				
Symbol		Parameter	Test Cor	nditions	Min	Тур	Max	Units
Off Sta	te Charact	eristics				1	I	1
BV <sub>CER</sub>	Collector to E	Emitter Breakdown Voltage	$I_{CE} = 2mA, V_{GE} = 0,$ $R_{GE} = 1K\Omega,$ $T_J = -40 \text{ to } 150^{\circ}\text{C}$		370	400	430	v
BV <sub>CES</sub>	Collector to Emitter Breakdown Voltage		$I_{CE} = 10$ mA, $V_{GE} = 0$ V R <sub>GE</sub> = 0, T <sub>J</sub> = -40 to 150°C	,	390	420	450	v
BV <sub>ECS</sub>	Emitter to Collector Breakdown Voltage		I <sub>CE</sub> = -20mA, V <sub>GE</sub> = 0V, T <sub>J</sub> = 25°C		28	-	-	V
BV <sub>GES</sub>	Gate to Emitter Breakdown Voltage		I <sub>GES</sub> = ±2mA		±12	±14	-	V
I <sub>CER</sub>	Collector to E	Emitter Leakage Current	V <sub>CE</sub> = 250V, R <sub>GE</sub> = 1K	$\begin{array}{c} \Omega  T_{\rm J} = 25^{\circ} \Omega \\ T_{\rm J} = 150^{\circ} \end{array}$		-	25 1	μA mA
I <sub>ECS</sub>	Emitter to Co	llector Leakage Current	V <sub>EC</sub> = 24V,	$T_{\rm J} = 25^{\circ}C_{\rm J}$ $T_{\rm J} = 150^{\circ}C_{\rm J}$	; -	-	1 40	mA
R <sub>1</sub>	Series Gate F	Resistance		0	-	120	-	Ω
R <sub>2</sub>	Gate to Emitt	er Resistance			10K	-	30K	Ω
On Stat	te Characte	eristics				•	•	•
V <sub>CE(SAT)</sub>	Collector to E	Emitter Saturation Voltage	$I_{CE} = 6A, V_{GE} = 4V,$	T <sub>J</sub> = 25°	C -	1.15	1.25	V
V <sub>CE(SAT)</sub>	Collector to E	Emitter Saturation Voltage	I <sub>CE</sub> = 10A, V <sub>GE</sub> = 4.5V			1.35	1.50	V
V <sub>CE(SAT)</sub>	Collector to E	Emitter Saturation Voltage	$I_{CE} = 15A, V_{GE} = 4.5V,$	T <sub>J</sub> = 150 <sup>o</sup>	- <sup>2</sup>	1.68	1.85	V

## **Thermal Characteristics**

_		
$R_{\theta JC}$	Thermal Resistance Junction to Case	

Self Clamped Inductive Switching

### Notes:

E<sub>SCIS</sub>

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.

 $L = 3.0 \text{ mHy}, RG = 1K\Omega$ ,

VGE = 5V, (Note 1)

TJ = 25°C

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.

300

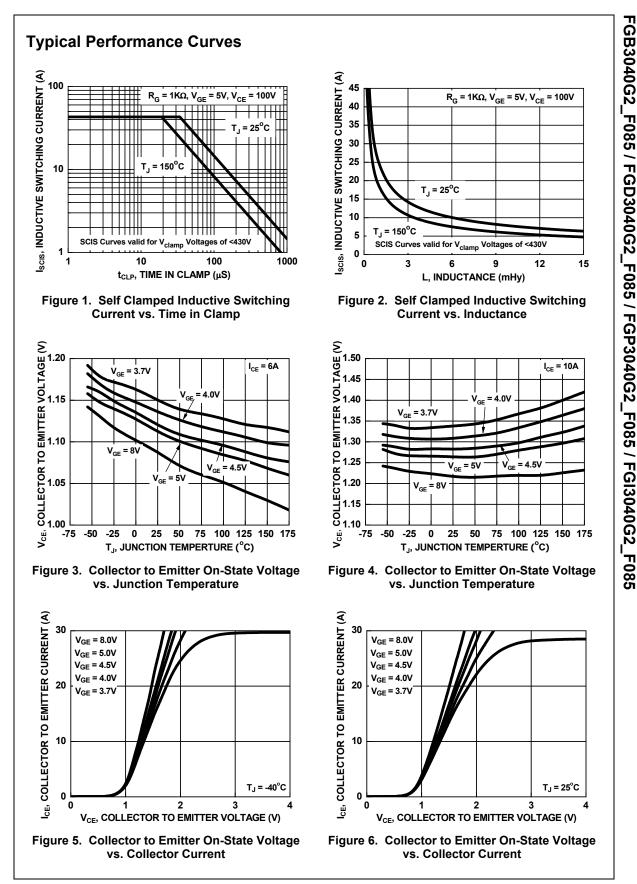
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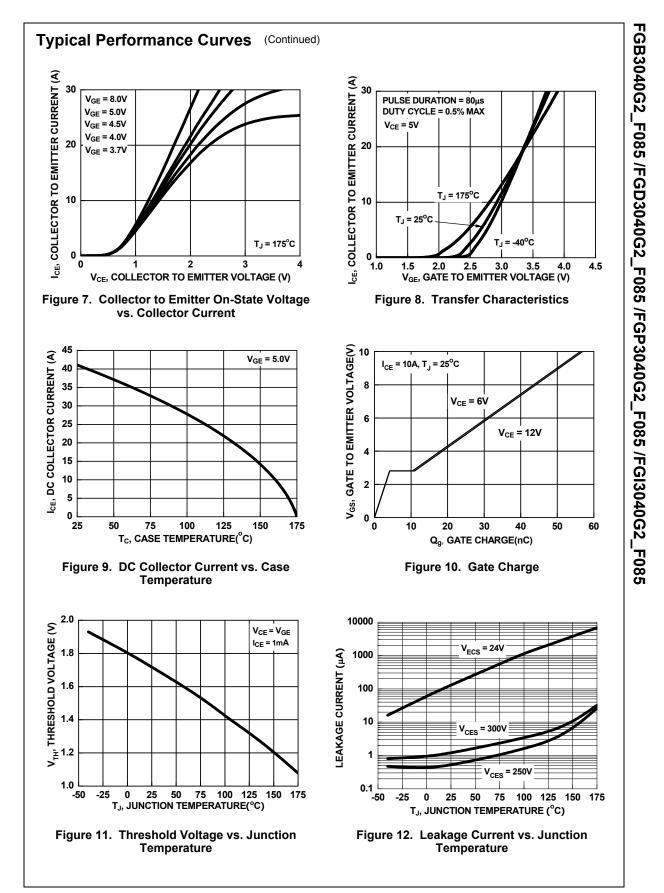
mJ

°C/W

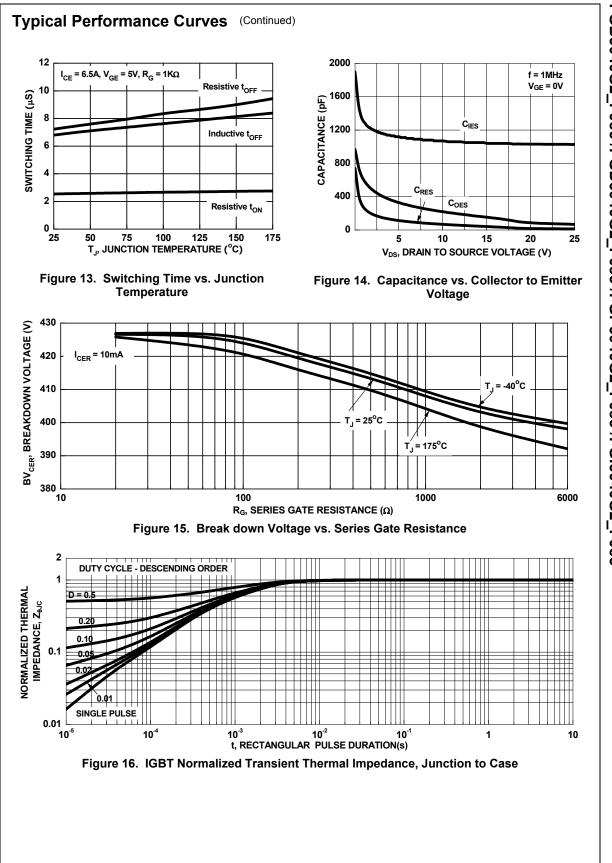
Dynamic Characteristics $\Omega_{Q(DN)}$ Gate Charge $1_{CE} = 10A, V_{CE} = 12V, T_{CE} = 12$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$Q_{G(ON)}$ Gate Charge $I_{CE} = 10A, V_V_{GE} = 5V$ $V_{GE(TH)}$ Gate to Emitter Threshold Voltage $I_{CE} = 1mA, V_V_{GE}$ $V_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE} = 12V, I$ $Witching Characteristics$ Witching Characteristics $M(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, F$ $R$ Current Rise Time-Resistive $V_{GE} = 5V, F$ $I_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, V_{GE} = 5V, F$	$V_{CE} = V_{GE}, \qquad \frac{T_J = 25}{T_J = 15}$ $I_{CE} = 10A$ $R_L = 1\Omega$ $R_G = 1K\Omega$ $L = 1mH,$ $R_G = 1K\Omega$	°C 1.3 0°C 0.75 - - - - -	1.7 1.2 2.8 0.9 1.9	2.2 1.8 -	v
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$U_{GE(ON)}$ Cate onlarge $V_{GE} = 5V$ $T_J = 25^{\circ}C$ $1.3$ $1.7$ $2.2$ $V_{CE}$ $V_{GE(TH)}$ Gate to Emitter Threshold Voltage $I_{CE} = 1mA, V_{CE} = V_{GE}, \frac{T_J = 25^{\circ}C}{T_J = 150^{\circ}C}$ $1.3$ $1.7$ $2.2$ $V$ $V_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE} = 12V, I_{CE} = 10A$ $ 2.8$ $ V$ Switching Characteristics $d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ $ 0.9$ $4$ $\mu s$ $\sigma_{R}$ Current Rise Time-Resistive $V_{CE} = 5V, R_G = 1K\Omega$ $ 1.9$ $7$ $\mu s$ $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH, V_{GE} = 5V, R_G = 1K\Omega$ $ 4.8$ $15$ $\mu s$ Output Fail Time Inductive $V_{GE} = 5V, R_G = 1K\Omega$ $ 4.8$ $15$ $\mu s$	Value of large       V <sub>GE</sub> = 5V $V_{GE(TH)}$ Gate to Emitter Threshold Voltage $I_{CE}$ = 1mA, V $V_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE}$ = 12V, I         witching Characteristics       V_{CE} = 14V, F $M_{(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE}$ = 14V, F $R$ Current Rise Time-Resistive $V_{GE}$ = 5V, F $M_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE}$ = 300V, V $Q_{GEF}$ Current Turn-Off Delay Time-Inductive $V_{CE}$ = 30V, V	$V_{CE} = V_{GE}, \qquad \frac{T_J = 25}{T_J = 15}$ $I_{CE} = 10A$ $R_L = 1\Omega$ $R_G = 1K\Omega$ $L = 1mH,$ $R_G = 1K\Omega$	°C 1.3 0°C 0.75 - - - - -	1.7 1.2 2.8 0.9 1.9	2.2 1.8 -	v
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$T_{GE(TH)}$ Gate to Emitter Threshold Voltage $I_{CE} = 1mA, V_{CE}$ $T_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE} = 12V, I$ $T_{Witching}$ Characteristics $T_{(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, F$ $T_{R}$ Current Rise Time-Resistive $V_{GE} = 5V, F$ $T_{J} = 25^{\circ}C, f$ $T_{J} = 25^{\circ}C, f$ $T_{J} = 25^{\circ}C, f$ $T_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, F$ $Q_{GE} = 5V, F$ $T_{GE} = 5V, F$ $V_{GE} = 5V, F$	$v_{CE} = v_{GE},$ $T_J = 15$ $I_{CE} = 10A$ $R_L = 1\Omega$ $R_G = 1K\Omega$ , L = 1mH, $R_G = 1K\Omega$	0°C 0.75 - - - - -	1.2 2.8 0.9 1.9	1.8 - 4	
$V_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE} = 12V$ , $I_{CE} = 10A$ -2.8-VSwitching Characteristics $t_{d(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V$ , $R_L = 1\Omega$ -0.94 $\mu s$ $t_{rR}$ Current Rise Time-Resistive $V_{GE} = 5V$ , $R_G = 1K\Omega$ -0.94 $\mu s$ $t_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$ , $L = 1mH$ ,-4.815 $\mu s$ $V_{GE} = 5V$ , $R_G = 1K\Omega$ -0.045 $\mu s$	$V_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE} = 12V$ , $I_{CE} = 10A$ -2.8-VSwitching Characteristics $t_{d(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V$ , $R_L = 1\Omega$ -0.94 $\mu s$ $t_{rR}$ Current Rise Time-Resistive $V_{GE} = 5V$ , $R_G = 1K\Omega$ -0.94 $\mu s$ $t_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$ , $L = 1mH$ ,-4.815 $\mu s$ $V_{GE} = 5V$ , $R_G = 1K\Omega$ -0.045 $\mu s$	$V_{GEP}$ Gate to Emitter Plateau Voltage $V_{CE} = 12V$ , $I_{CE} = 10A$ -2.8-VSwitching Characteristics $d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V$ , $R_L = 1\Omega$ -0.94 $\mu s$ $r_{R}$ Current Rise Time-Resistive $V_{GE} = 5V$ , $R_G = 1K\Omega$ -1.97 $\mu s$ $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$ , $L = 1mH$ ,-4.815 $\mu s$ $Querent Fail Trans InductionV_{GE} = 5V, R_G = 1K\Omega-0.94.5\mu s$	witching Characteristics $d_{(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V$ , F $R$ Current Rise Time-Resistive $V_{GE} = 5V$ , F $T_J = 25^{\circ}C$ , $T_J = 25^{\circ}C$ , $d_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$ , $V_{GE} = 5V$ , F $V_{GE} = 5V$ , F	$R_{L} = 10A$ $R_{L} = 1\Omega$ $R_{G} = 1K\Omega$ , L = 1mH, $R_{G} = 1K\Omega$	-	2.8 0.9 1.9	- 4	V
Switching Characteristics $i_{d(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 $\mu s$ $i_{TR}$ Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 $\mu s$ $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 $\mu s$ $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{GE} = 5V, R_G = 1K\Omega$ -4.815 $\mu s$	Switching Characteristics $i_{d(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 $\mu s$ $i_{TR}$ Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 $\mu s$ $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 $\mu s$ $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{GE} = 5V, R_G = 1K\Omega$ -4.815 $\mu s$	Switching Characteristics $d_{(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 $\mu s$ $r_R$ Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 $\mu s$ $d_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 $\mu s$ $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ 0.04.5-1.5	witching Characteristics $d_{(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, F$ $R$ Current Rise Time-Resistive $V_{GE} = 5V, F$ $T_J = 25^{\circ}C,$ $T_J = 25^{\circ}C,$ $d_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V,$ $V_{GE} = 5V, F$ $V_{GE} = 5V, F$	$R_{G}^{-} = 1K\Omega$ , L = 1mH, $R_{G}^{-} = 1K\Omega$	-	1.9		
$d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 $\mu s$ $r_R$ Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 $\mu s$ $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 $\mu s$ $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ -0.04.5 $\mu s$	$d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 $\mu s$ $r_R$ Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 $\mu s$ $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 $\mu s$ $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ -0.04.5 $\mu s$	$d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 $\mu s$ $r_R$ Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 $\mu s$ $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 $\mu s$ $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ -0.04.5 $\mu s$	$L(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE}$ = 14V, F $R$ Current Rise Time-Resistive $V_{GE}$ = 5V, F $T_J$ = 25°C, $T_J$ = 25°C, $L(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE}$ = 300V, $V_{GE}$ = 5V, F $T_{GE}$ = 5V, F	$R_{G}^{-} = 1K\Omega$ , L = 1mH, $R_{G}^{-} = 1K\Omega$	-	1.9		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$T_{J} = 25^{\circ}C,$ $T_{J} = 25^{\circ}C,$ $T_{J} = 25^{\circ}C,$ $T_{C} = 300V,$ $T_{C} = 5V, F$	, L = 1mH, R <sub>G</sub> = 1KΩ	-		7	μS
$V_{GE} = 5V, R_G = 1K\Omega$	$V_{GE} = 5V, R_G = 1K\Omega$	$V_{GE} = 5V, R_G = 1K\Omega$	$V_{GE} = 5V, F$	R <sub>G</sub> = 1KΩ		4.8		μS
$\frac{V_{GE} = 5V, \ K_G = 1K\Omega}{I_{CE} = 6.5A, \ T_J = 25^{\circ}C,} - 2.0 \ 15 \ \mu S$	h_L         Current Fall Time-Inductive         V <sub>GE</sub> = 5.V, R <sub>G</sub> = 1KΩ I <sub>CE</sub> = 6.5A, T <sub>J</sub> = 25°C,         -         2.0         15         μs	$\frac{ V_{QE} ^2 = 5^{\circ}, K_{Q} = 1K\Omega}{ _{QE} = 6.5A, T_{J} = 25^{\circ}C,} - 2.0  15  \mu s$	Current Fall Time-Inductive $V_{GE} = 5V, F$	$R_G = 1K\Omega$ $T_J = 25^{\circ}C,$	-		15	μS
				19 20 0,		2.0	15	μS



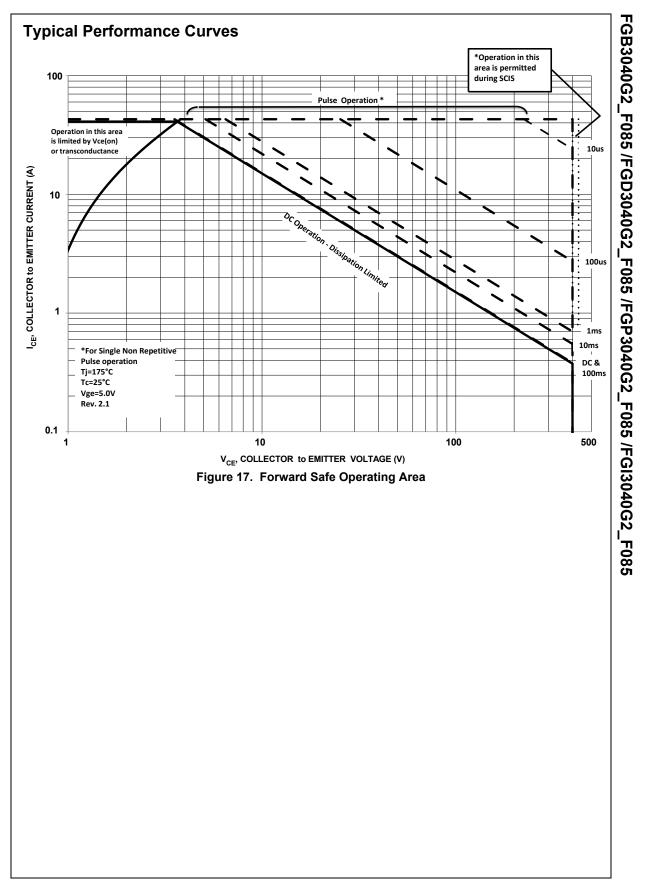
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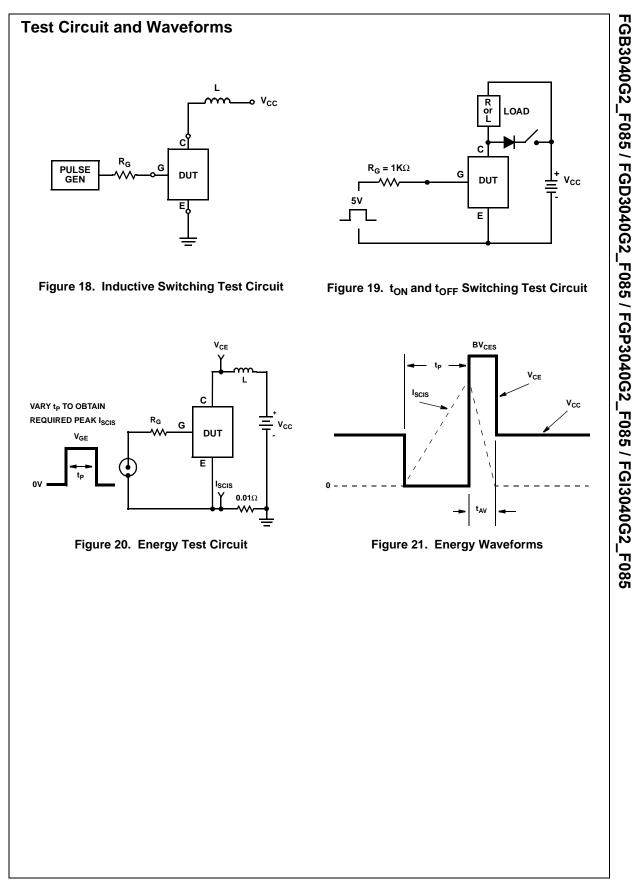


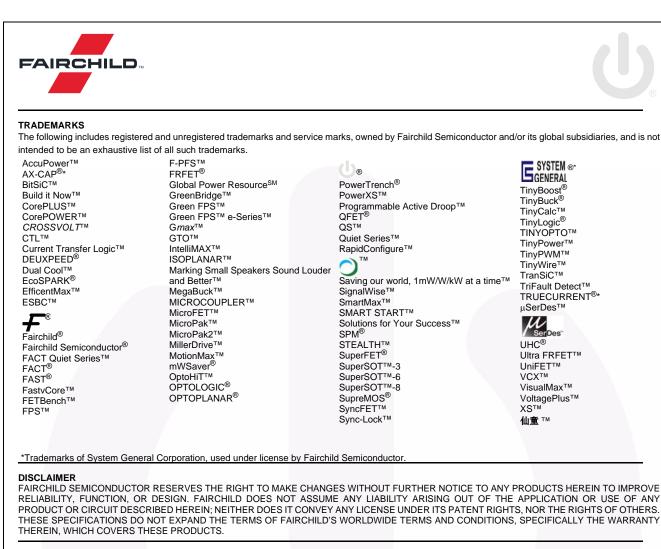
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