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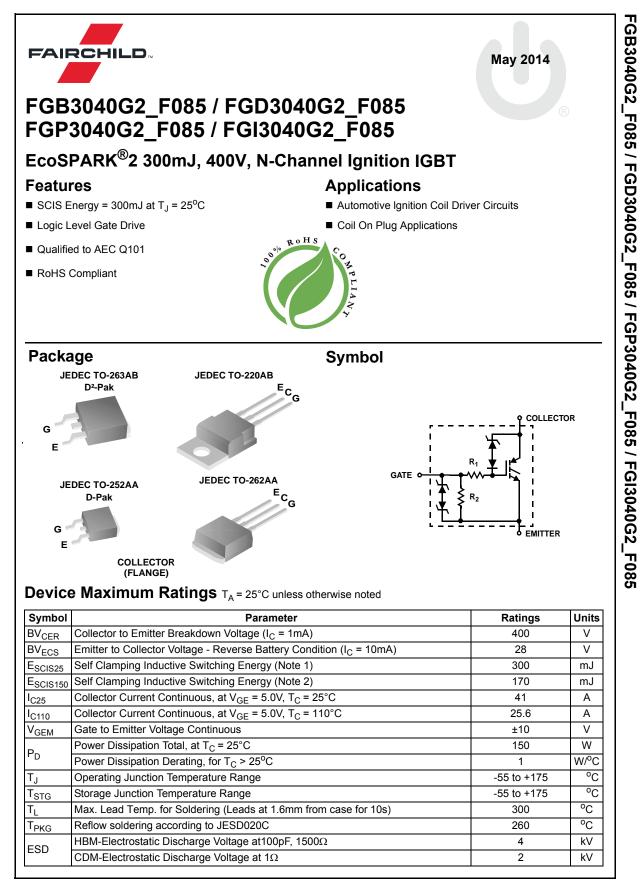


ON Semiconductor®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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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	acteristics T _A = 25°	C unless otherwise not	ed				
Symbol		Parameter	Test Cor	nditions	Min	Тур	Max	Units
Off Sta	te Charact	eristics				1	I	1
BV _{CER}	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 _{CES}	Collector to Emitter Breakdown Voltage		$I_{CE} = 10$ mA, $V_{GE} = 0$ V R _{GE} = 0, T _J = -40 to 150°C	,	390	420	450	v
BV _{ECS}	Emitter to Collector Breakdown Voltage		I _{CE} = -20mA, V _{GE} = 0V, T _J = 25°C		28	-	-	V
BV _{GES}	Gate to Emitter Breakdown Voltage		I _{GES} = ±2mA		±12	±14	-	V
I _{CER}	Collector to E	Emitter Leakage Current	V _{CE} = 250V, R _{GE} = 1K	$\begin{array}{c} \Omega T_{\rm J} = 25^{\circ} \Omega \\ T_{\rm J} = 150^{\circ} \end{array}$		-	25 1	μA mA
I _{ECS}	Emitter to Co	llector Leakage Current	V _{EC} = 24V,	$T_{\rm J} = 25^{\circ}C_{\rm J}$ $T_{\rm J} = 150^{\circ}C_{\rm J}$; -	-	1 40	mA
R ₁	Series Gate F	Resistance		0	-	120	-	Ω
R ₂	Gate to Emitt	er Resistance			10K	-	30K	Ω
On Stat	te Characte	eristics				•	•	•
V _{CE(SAT)}	Collector to E	Emitter Saturation Voltage	$I_{CE} = 6A, V_{GE} = 4V,$	T _J = 25°	C -	1.15	1.25	V
V _{CE(SAT)}	Collector to E	Emitter Saturation Voltage	I _{CE} = 10A, V _{GE} = 4.5V			1.35	1.50	V
V _{CE(SAT)}	Collector to E	Emitter Saturation Voltage	$I_{CE} = 15A, V_{GE} = 4.5V,$	T _J = 150 ^o	- ²	1.68	1.85	V

Thermal Characteristics

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

Self Clamped Inductive Switching

Notes:

E_{SCIS}

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_{SCIS}=14.2A,V_{CC}=100V during inductor charging and V_{CC}=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_{SCIS}=10.8A,V_{CC}=100V during inductor charging and V_{CC}=0V during the time in clamp.

300

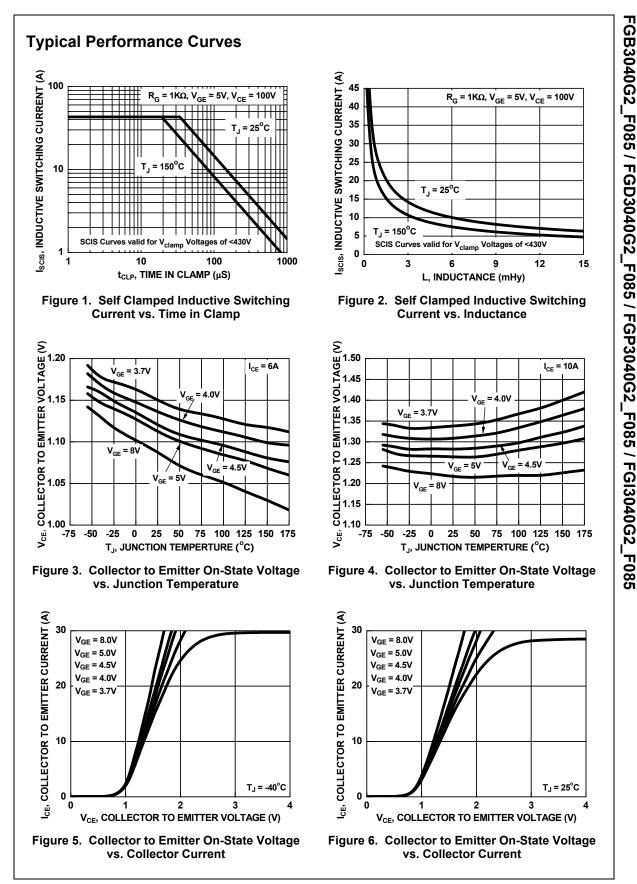
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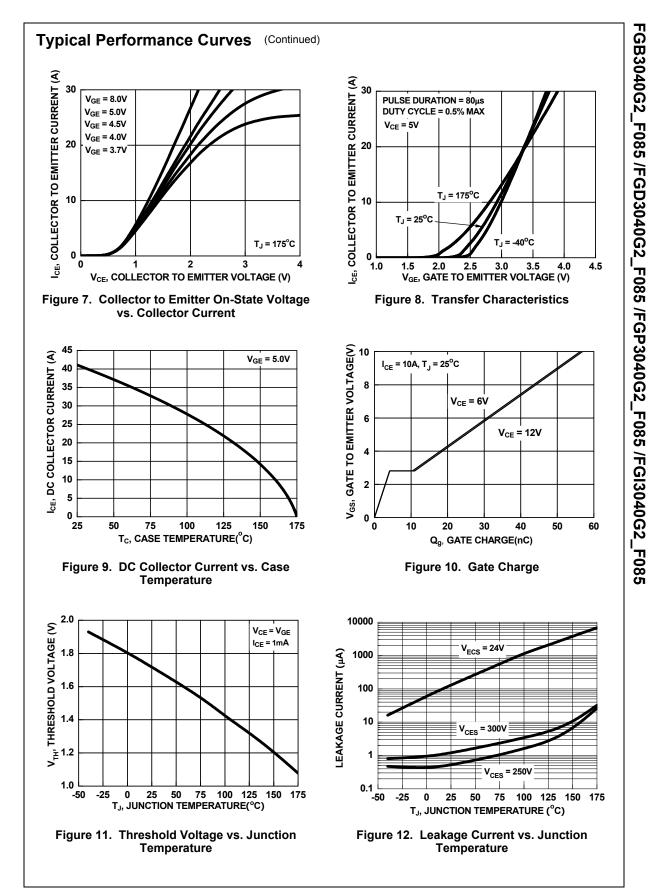
mJ

°C/W

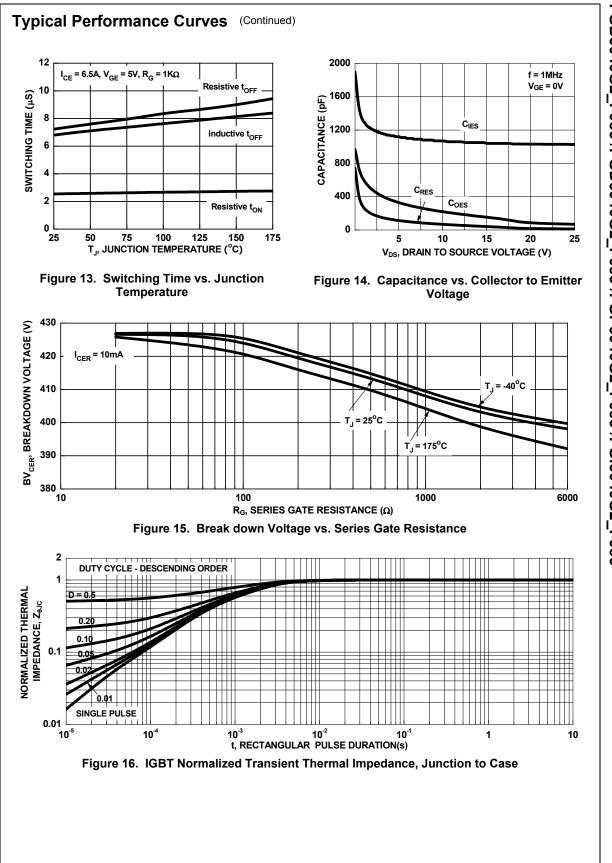
Dynamic Characteristics $\Omega_{Q(DN)}$ Gate Charge $1_{CE} = 10A, V_{CE} = 12V, T_{CE} = 12$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$Q_{G(ON)}$ Gate Charge $I_{CE} = 10A, V_V_{GE} = 5V$ $V_{GE(TH)}$ Gate to Emitter Threshold Voltage $I_{CE} = 1mA, V_V_{GE}$ 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 μs σ_{R} Current Rise Time-Resistive $V_{CE} = 5V, R_G = 1K\Omega$ $ 1.9$ 7 μs $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH, V_{GE} = 5V, R_G = 1K\Omega$ $ 4.8$ 15 μs Output Fail Time Inductive $V_{GE} = 5V, R_G = 1K\Omega$ $ 4.8$ 15 μs	Value of large V _{GE} = 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 μs t_{rR} Current Rise Time-Resistive $V_{GE} = 5V$, $R_G = 1K\Omega$ -0.94 μs $t_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$, $L = 1mH$,-4.815 μs $V_{GE} = 5V$, $R_G = 1K\Omega$ -0.045 μs	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 μs t_{rR} Current Rise Time-Resistive $V_{GE} = 5V$, $R_G = 1K\Omega$ -0.94 μs $t_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$, $L = 1mH$,-4.815 μs $V_{GE} = 5V$, $R_G = 1K\Omega$ -0.045 μs	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 μs r_{R} Current Rise Time-Resistive $V_{GE} = 5V$, $R_G = 1K\Omega$ -1.97 μs $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V$, $L = 1mH$,-4.815 μs $Querent Fail Trans InductionV_{GE} = 5V, R_G = 1K\Omega-0.94.5\mu s$	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 μs i_{TR} Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 μs $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 μs $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{GE} = 5V, R_G = 1K\Omega$ -4.815 μs	Switching Characteristics $i_{d(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 μs i_{TR} Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 μs $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 μs $i_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{GE} = 5V, R_G = 1K\Omega$ -4.815 μs	Switching Characteristics $d_{(ON)R}$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 μs r_R Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 μs $d_{(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 μs $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ 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 μs r_R Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 μs $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 μs $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ -0.04.5 μs	$d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 μs r_R Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 μs $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 μs $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ -0.04.5 μs	$d(ON)R$ Current Turn-On Delay Time-Resistive $V_{CE} = 14V, R_L = 1\Omega$ -0.94 μs r_R Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ -1.97 μs $d(OFF)L$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 1mH,$ -4.815 μs $Q_{GE} = 5V, R_G = 1K\Omega$ $V_{GE} = 5V, R_G = 1K\Omega$ -0.04.5 μs	$L(ON)R$ 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 _G = 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 _G = 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 _{GE} = 5.V, R _G = 1KΩ I _{CE} = 6.5A, T _J = 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



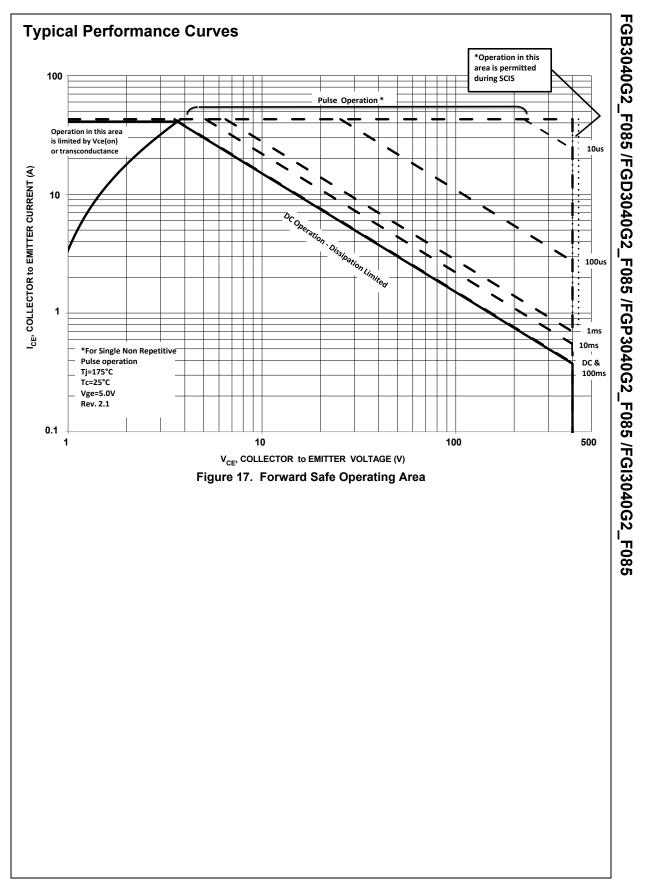
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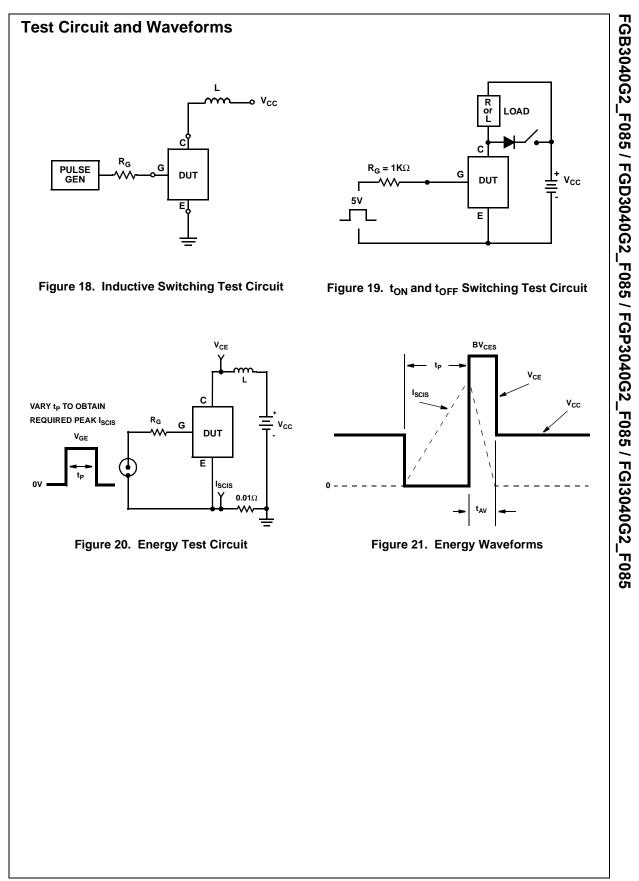


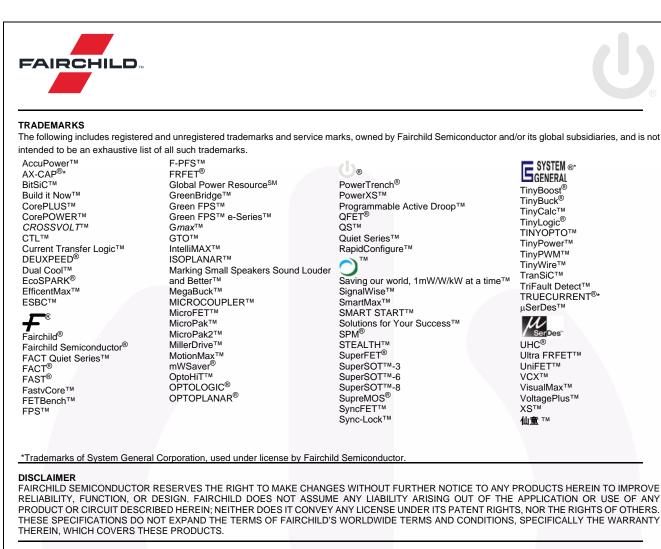
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