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May 2014



## FGB3040G2\_F085 / FGD3040G2\_F085 FGP3040G2\_F085 / FGI3040G2\_F085

### EcoSPARK<sup>®</sup> 2 300mJ, 400V, N-Channel Ignition IGBT

#### Features

- SCIS Energy = 300mJ at  $T_J = 25^\circ\text{C}$
- Logic Level Gate Drive
- Qualified to AEC Q101
- RoHS Compliant

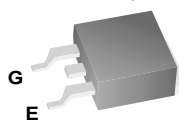
#### Applications

- Automotive Ignition Coil Driver Circuits
- Coil On Plug Applications

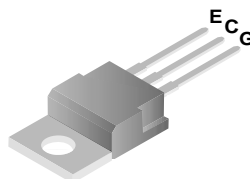


#### Package

JEDEC TO-263AB  
D<sup>2</sup>-Pak



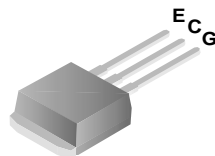
JEDEC TO-220AB



JEDEC TO-252AA  
D-Pak

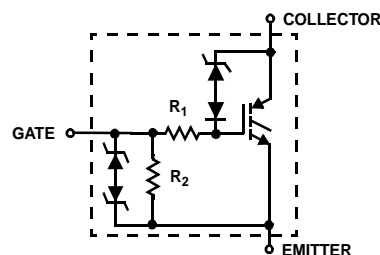


JEDEC TO-262AA



COLLECTOR  
(FLANGE)

#### Symbol



#### Device Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Ratings	Units
$BV_{CER}$	Collector to Emitter Breakdown Voltage ( $I_C = 1\text{mA}$ )	400	V
$BV_{ECS}$	Emitter to Collector Voltage - Reverse Battery Condition ( $I_C = 10\text{mA}$ )	28	V
$E_{SCIS25}$	Self Clamping Inductive Switching Energy (Note 1)	300	mJ
$E_{SCIS150}$	Self Clamping Inductive Switching Energy (Note 2)	170	mJ
$I_{C25}$	Collector Current Continuous, at $V_{GE} = 5.0\text{V}$ , $T_C = 25^\circ\text{C}$	41	A
$I_{C110}$	Collector Current Continuous, at $V_{GE} = 5.0\text{V}$ , $T_C = 110^\circ\text{C}$	25.6	A
$V_{GEM}$	Gate to Emitter Voltage Continuous	$\pm 10$	V
$P_D$	Power Dissipation Total, at $T_C = 25^\circ\text{C}$	150	W
	Power Dissipation Derating, for $T_C > 25^\circ\text{C}$	1	W/ $^\circ\text{C}$
$T_J$	Operating Junction Temperature Range	-55 to +175	$^\circ\text{C}$
$T_{STG}$	Storage Junction Temperature Range	-55 to +175	$^\circ\text{C}$
$T_L$	Max. Lead Temp. for Soldering (Leads at 1.6mm from case for 10s)	300	$^\circ\text{C}$
$T_{PKG}$	Reflow soldering according to JESD020C	260	$^\circ\text{C}$
ESD	HBM-Electrostatic Discharge Voltage at 100pF, 1500 $\Omega$	4	kV
	CDM-Electrostatic Discharge Voltage at 1 $\Omega$	2	kV

## Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FGB3040G2	FGB3040G2_F085	TO-263AB	330mm	24mm	800
FGD3040G2	FGD3040G2_F085	TO-252AA	330mm	16mm	2500
FGP3040G2	FGP3040G2_F085	TO-220AB	Tube	N/A	50
FGI3040G2	FGI3040G2_F085	TO-262AA	Tube	N/A	50

## Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
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### Off State Characteristics

$BV_{\text{CER}}$	Collector to Emitter Breakdown Voltage	$I_{\text{CE}} = 2\text{mA}$ , $V_{\text{GE}} = 0$ , $R_{\text{GE}} = 1\text{K}\Omega$ , $T_J = -40$ to $150^\circ\text{C}$	370	400	430	V
$BV_{\text{CES}}$	Collector to Emitter Breakdown Voltage	$I_{\text{CE}} = 10\text{mA}$ , $V_{\text{GE}} = 0\text{V}$ , $R_{\text{GE}} = 0$ , $T_J = -40$ to $150^\circ\text{C}$	390	420	450	V
$BV_{\text{ECS}}$	Emitter to Collector Breakdown Voltage	$I_{\text{CE}} = -20\text{mA}$ , $V_{\text{GE}} = 0\text{V}$ , $T_J = 25^\circ\text{C}$	28	-	-	V
$BV_{\text{GES}}$	Gate to Emitter Breakdown Voltage	$I_{\text{GES}} = \pm 2\text{mA}$	$\pm 12$	$\pm 14$	-	V
$I_{\text{CER}}$	Collector to Emitter Leakage Current	$V_{\text{CE}} = 250\text{V}$ , $R_{\text{GE}} = 1\text{K}\Omega$	$T_J = 25^\circ\text{C}$	-	-	25 $\mu\text{A}$
			$T_J = 150^\circ\text{C}$	-	-	1 mA
$I_{\text{ECS}}$	Emitter to Collector Leakage Current	$V_{\text{EC}} = 24\text{V}$	$T_J = 25^\circ\text{C}$	-	-	1 mA
			$T_J = 150^\circ\text{C}$	-	-	40
$R_1$	Series Gate Resistance		-	120	-	$\Omega$
$R_2$	Gate to Emitter Resistance		10K	-	30K	$\Omega$

### On State Characteristics

$V_{\text{CE(SAT)}}$	Collector to Emitter Saturation Voltage	$I_{\text{CE}} = 6\text{A}$ , $V_{\text{GE}} = 4\text{V}$ , $T_J = 25^\circ\text{C}$	-	1.15	1.25	V
$V_{\text{CE(SAT)}}$	Collector to Emitter Saturation Voltage	$I_{\text{CE}} = 10\text{A}$ , $V_{\text{GE}} = 4.5\text{V}$ , $T_J = 150^\circ\text{C}$	-	1.35	1.50	V
$V_{\text{CE(SAT)}}$	Collector to Emitter Saturation Voltage	$I_{\text{CE}} = 15\text{A}$ , $V_{\text{GE}} = 4.5\text{V}$ , $T_J = 150^\circ\text{C}$	-	1.68	1.85	V
$E_{\text{SCIS}}$	Self Clamped Inductive Switching	$L = 3.0\text{ mHy}$ , $R_G = 1\text{K}\Omega$ , $V_{\text{GE}} = 5\text{V}$ , (Note 1) $T_J = 25^\circ\text{C}$	-	-	300	mJ

### Thermal Characteristics

$R_{\theta\text{JC}}$	Thermal Resistance Junction to Case		-	-	1	$^\circ\text{C/W}$
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### Notes:

- 1: Self Clamping Inductive Switching Energy ( $E_{\text{SCIS}25}$ ) of 300 mJ is based on the test conditions that starting  $T_J = 25^\circ\text{C}$ ;  $L = 3\text{mHy}$ ,  $I_{\text{SCIS}} = 14.2\text{A}$ ,  $V_{\text{CC}} = 100\text{V}$  during inductor charging and  $V_{\text{CC}} = 0\text{V}$  during the time in clamp.
- 2: Self Clamping Inductive Switching Energy ( $E_{\text{SCIS}150}$ ) of 170 mJ is based on the test conditions that starting  $T_J = 150^\circ\text{C}$ ;  $L = 3\text{mHy}$ ,  $I_{\text{SCIS}} = 10.8\text{A}$ ,  $V_{\text{CC}} = 100\text{V}$  during inductor charging and  $V_{\text{CC}} = 0\text{V}$  during the time in clamp.

## Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
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### Dynamic Characteristics

$Q_{G(ON)}$	Gate Charge	$I_{CE} = 10\text{A}$ , $V_{CE} = 12\text{V}$ , $V_{GE} = 5\text{V}$	-	21	-	nC
$V_{GE(TH)}$	Gate to Emitter Threshold Voltage	$I_{CE} = 1\text{mA}$ , $V_{CE} = V_{GE}$ , $T_J = 25^\circ\text{C}$	1.3	1.7	2.2	V
		$T_J = 150^\circ\text{C}$	0.75	1.2	1.8	V
$V_{GEP}$	Gate to Emitter Plateau Voltage	$V_{CE} = 12\text{V}$ , $I_{CE} = 10\text{A}$	-	2.8	-	V

### Switching Characteristics

$t_{d(ON)R}$	Current Turn-On Delay Time-Resistive	$V_{CE} = 14\text{V}$ , $R_L = 1\Omega$	-	0.9	4	$\mu\text{s}$
$t_{rR}$	Current Rise Time-Resistive	$V_{GE} = 5\text{V}$ , $R_G = 1\text{K}\Omega$ , $T_J = 25^\circ\text{C}$	-	1.9	7	$\mu\text{s}$
$t_{d(OFF)L}$	Current Turn-Off Delay Time-Inductive	$V_{CE} = 300\text{V}$ , $L = 1\text{mH}$ , $V_{GE} = 5\text{V}$ , $R_G = 1\text{K}\Omega$	-	4.8	15	$\mu\text{s}$
$t_{fL}$	Current Fall Time-Inductive	$I_{CE} = 6.5\text{A}$ , $T_J = 25^\circ\text{C}$	-	2.0	15	$\mu\text{s}$

## Typical Performance Curves

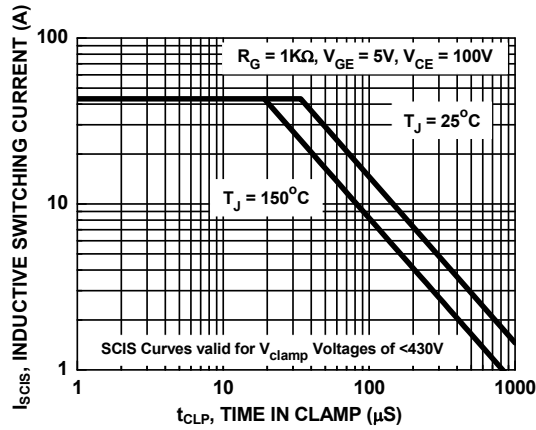


Figure 1. Self Clamped Inductive Switching Current vs. Time in Clamp

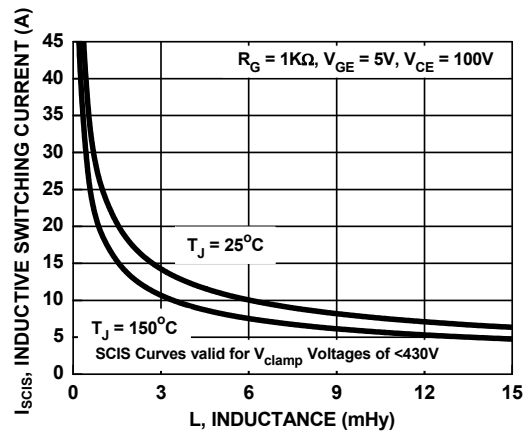


Figure 2. Self Clamped Inductive Switching Current vs. Inductance

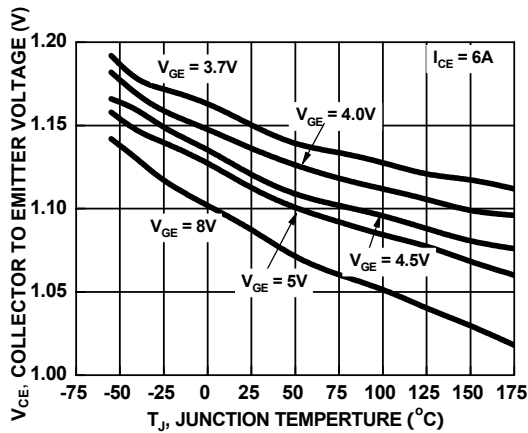


Figure 3. Collector to Emitter On-State Voltage vs. Junction Temperature

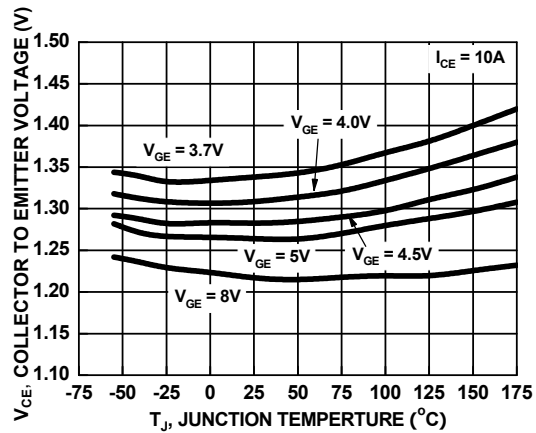


Figure 4. Collector to Emitter On-State Voltage vs. Junction Temperature

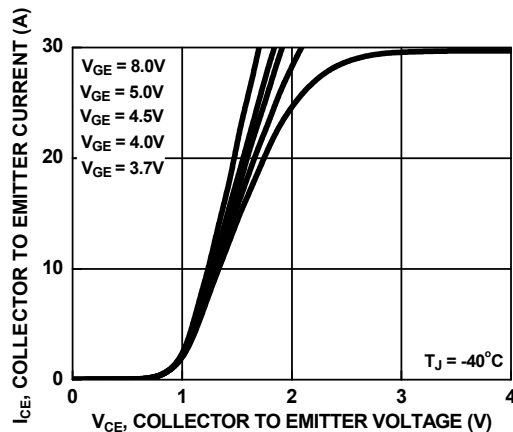


Figure 5. Collector to Emitter On-State Voltage vs. Collector Current

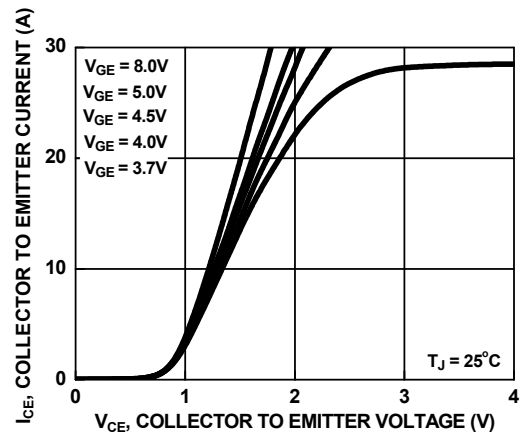


Figure 6. Collector to Emitter On-State Voltage vs. Collector Current

## Typical Performance Curves (Continued)

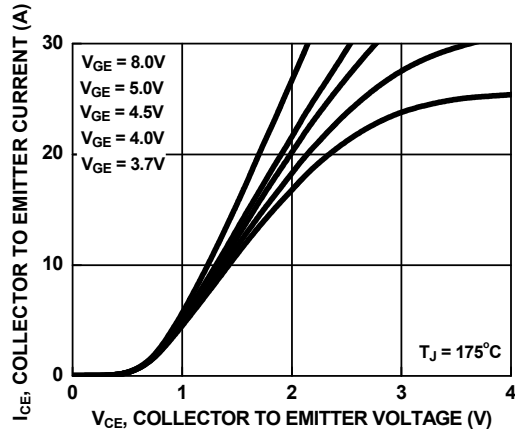


Figure 7. Collector to Emitter On-State Voltage vs. Collector Current

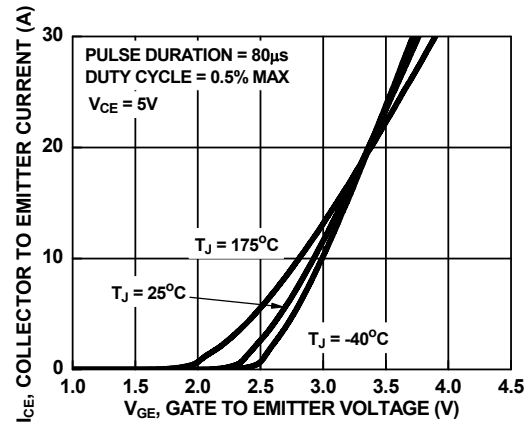


Figure 8. Transfer Characteristics

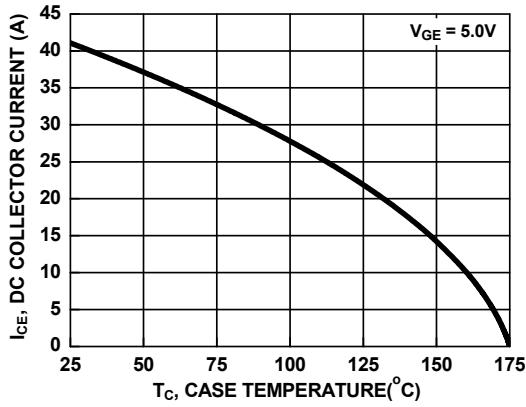


Figure 9. DC Collector Current vs. Case Temperature

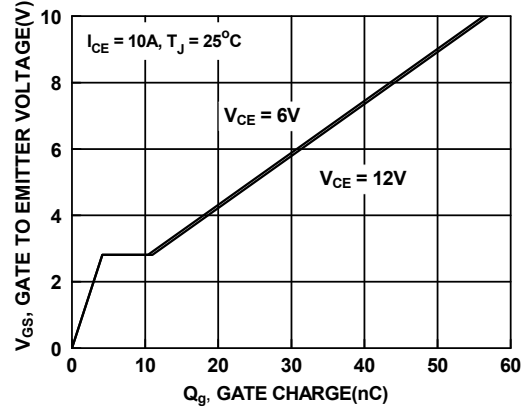


Figure 10. Gate Charge

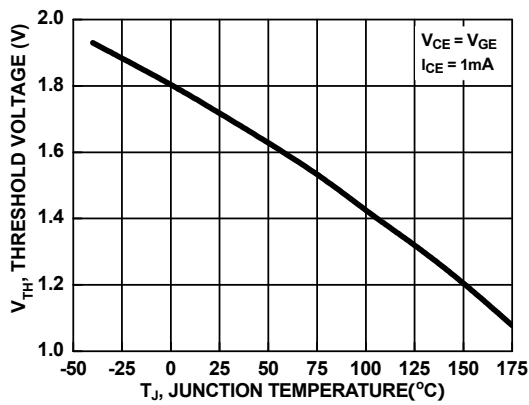


Figure 11. Threshold Voltage vs. Junction Temperature

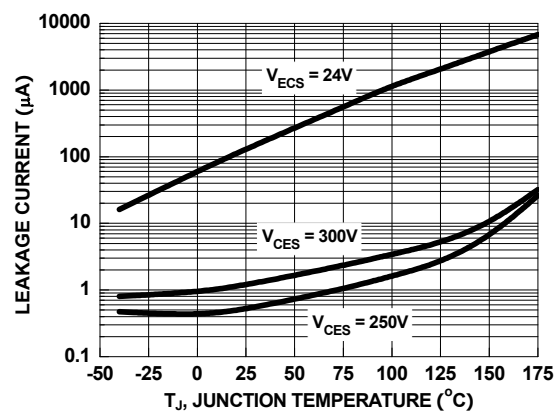


Figure 12. Leakage Current vs. Junction Temperature

## Typical Performance Curves (Continued)

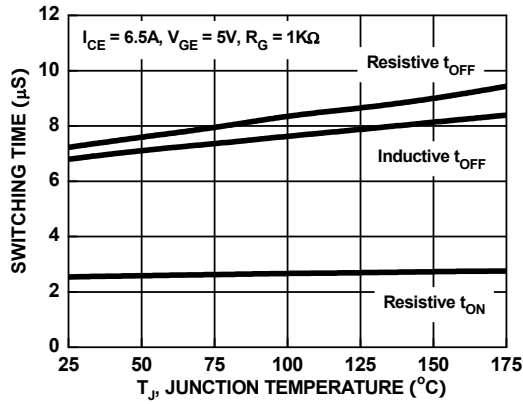


Figure 13. Switching Time vs. Junction Temperature

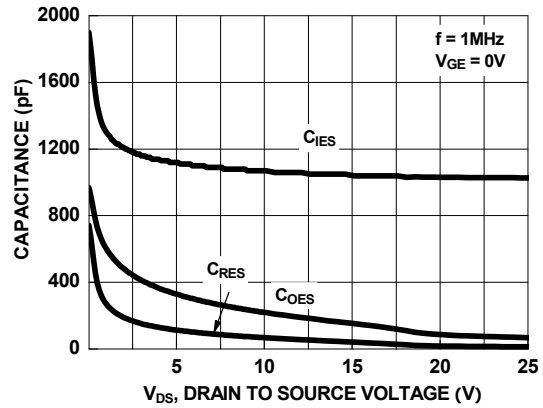


Figure 14. Capacitance vs. Collector to Emitter Voltage

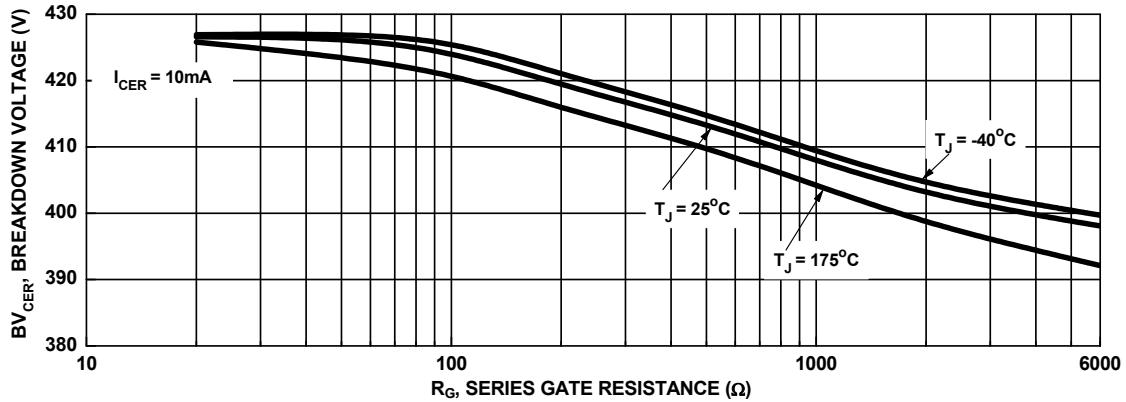


Figure 15. Break down Voltage vs. Series Gate Resistance

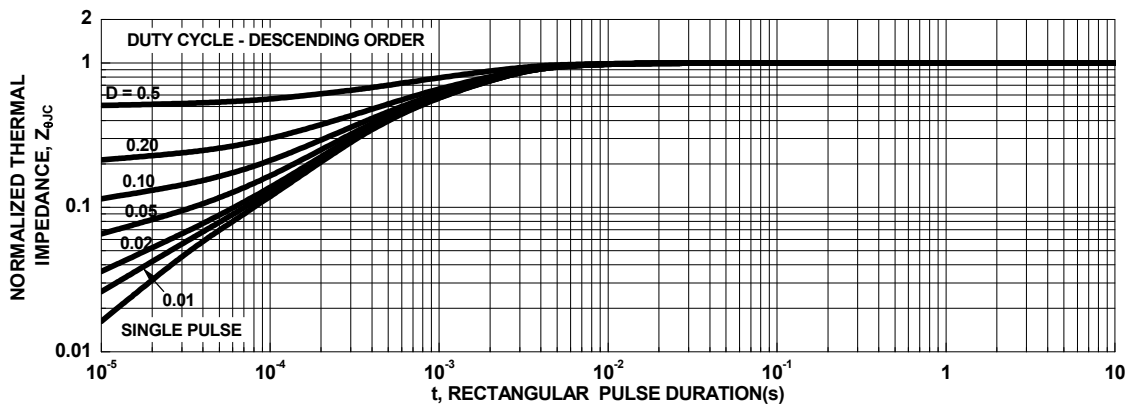


Figure 16. IGBT Normalized Transient Thermal Impedance, Junction to Case

## Typical Performance Curves

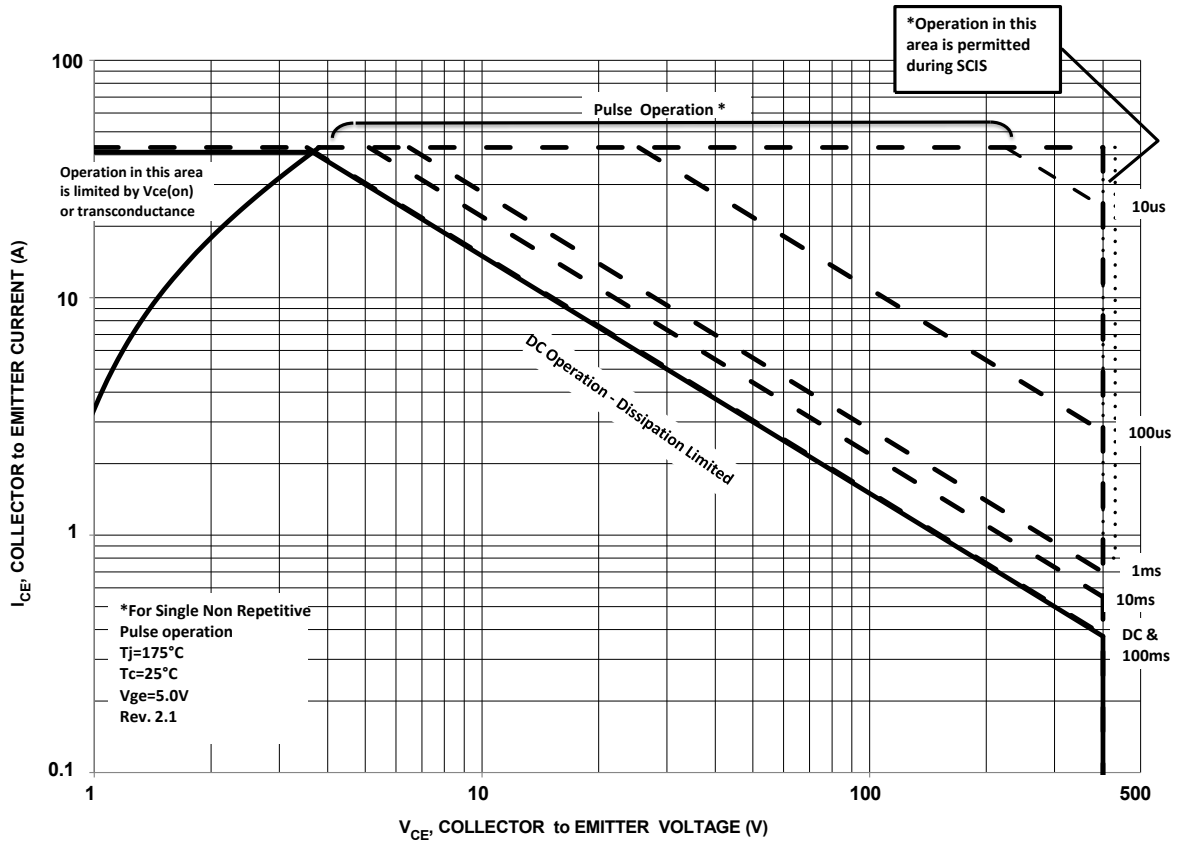


Figure 17. Forward Safe Operating Area



## Test Circuit and Waveforms

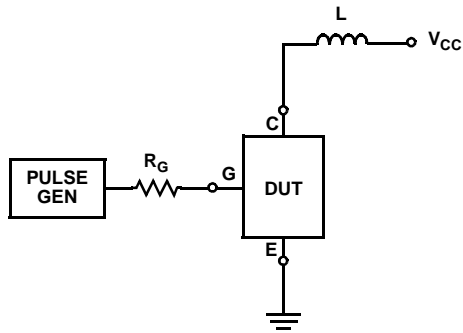


Figure 18. Inductive Switching Test Circuit

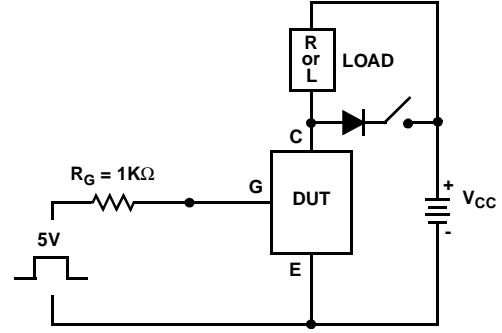


Figure 19.  $t_{ON}$  and  $t_{OFF}$  Switching Test Circuit

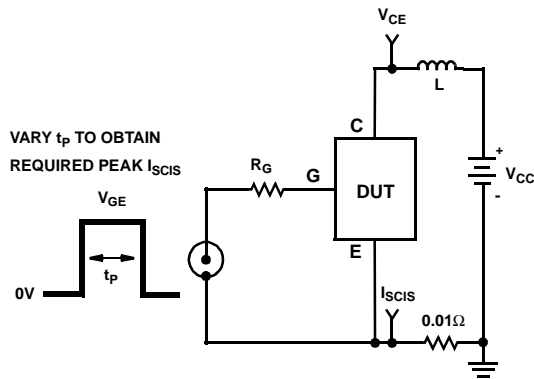


Figure 20. Energy Test Circuit

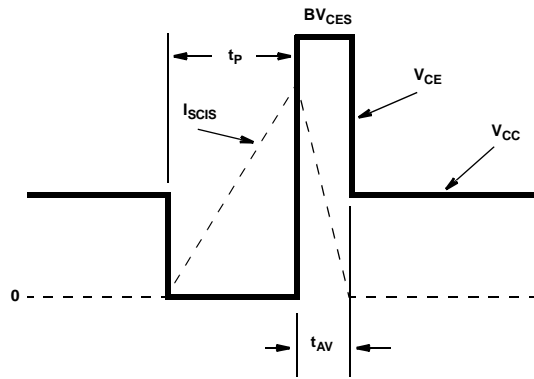





Figure 21. Energy Waveforms



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No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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