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# FGH50N3

## 300 V SMPS IGBT

### General Description

Using Fairchild®'s planar technology, this IGBT is ideal for many high voltage switching applications operating at high frequencies where low conduction losses are essential. This device has been optimized for medium frequency switch mode power supplies.

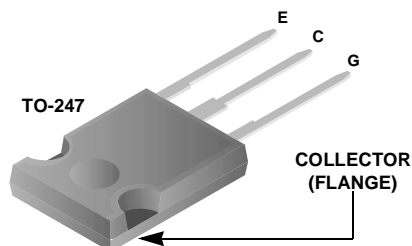
### Applications

- SMPS

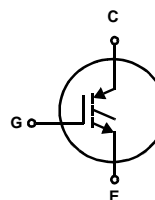
### Features

- Low Saturation Voltage:  $V_{CE(sat)} = 1.4 \text{ V max}$
- Low  $E_{OFF} = 6.6 \text{ uJ/A}$
- $SCWT = 8 \text{ us @ } 125^\circ\text{C}$
- 300V Switching SOA Capability
- Positive Temperature Coefficient above 50 A

### Package



### Symbol



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

Symbol	Parameter	Ratings	Unit
$BV_{CES}$	Collector to Emitter Breakdown Voltage	300	V
$I_{C25}$	Collector Current Continuous, $T_C = 25^\circ\text{C}$	75	A
$I_{C110}$	Collector Current Continuous, $T_C = 110^\circ\text{C}$	75	A
$I_{CM}$	Collector Current Pulsed (Note 1)	240	A
$V_{GES}$	Gate to Emitter Voltage Continuous	$\pm 20$	V
$V_{GEM}$	Gate to Emitter Voltage Pulsed	$\pm 30$	V
SSOA	Switching Safe Operating Area at $T_J = 150^\circ\text{C}$ , Figure 2	150A at 300V	
$E_{AS}$	Single Pulse Avalanche Energy, $I_{CE} = 30\text{A}$ , $L = 1.78\text{mH}$ , $V_{DD} = 50\text{V}$	800	mJ
$E_{ARV}$	Single Pulse Reverse Avalanche Energy, $I_{EC} = 30\text{A}$ , $L = 1.78\text{mH}$ , $V_{DD} = 50\text{V}$	800	mJ
$P_D$	Power Dissipation Total $T_C = 25^\circ\text{C}$	463	W
	Power Dissipation Derating $T_C > 25^\circ\text{C}$	3.7	W/ $^\circ\text{C}$
$T_J$	Operating Junction Temperature Range	-55 to 150	$^\circ\text{C}$
$T_{STG}$	Storage Junction Temperature Range	-55 to 150	$^\circ\text{C}$
$t_{SC}$	Short Circuit Withstand Time (Note 2)	8	$\mu\text{s}$

**CAUTION:** Stresses above those listed in "Device Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

**NOTE:**

1. Pulse width limited by maximum junction temperature.
2.  $V_{CE(PK)} = 180\text{V}$ ,  $T_J = 125^\circ\text{C}$ ,  $V_{GE} = 12\text{Vdc}$ ,  $R_G = 5\Omega$

**Package Marking and Ordering Information**

Device Marking	Device	Package	Tape Width	Quantity
FGH50N3	FGH50N3	TO-247	N/A	30

**Electrical Characteristics**  $T_J = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$BV_{CES}$	Collector to Emitter Breakdown Voltage	$I_{CE} = 250\mu\text{A}$ , $V_{GE} = 0\text{V}$	300V	-	-	V
$BV_{ECS}$	Emitter to Collector Breakdown Voltage	$I_{EC} = 10\text{mA}$ , $V_{GE} = 0\text{V}$	15V	-	-	V
$I_{CES}$	Collector to Emitter Leakage Current	$V_{CE} = 300\text{V}$ $T_J = 25^\circ\text{C}$	-	-	250	$\mu\text{A}$
		$T_J = 125^\circ\text{C}$	-	-	2.0	mA
$I_{GES}$	Gate to Emitter Leakage Current	$V_{GE} = \pm 20\text{V}$	-	-	$\pm 250$	nA

**On State Characteristics**

$V_{CE(SAT)}$	Collector to Emitter Saturation Voltage	$I_{CE} = 30\text{A}$ $V_{GE} = 15\text{V}$	$T_J = 25^\circ\text{C}$	-	1.30	1.4	V
			$T_J = 125^\circ\text{C}$	-	1.25	1.4	V

**Dynamic Characteristics**

$Q_{G(ON)}$	Gate Charge	$I_{CE} = 30\text{A}$ $V_{CE} = 150\text{V}$	$V_{GE} = 15\text{V}$	-	180	-	nC
			$V_{GE} = 20\text{V}$	-	228	-	nC
$V_{GE(TH)}$	Gate to Emitter Threshold Voltage	$I_{CE} = 250\mu\text{A}$ , $V_{CE} = V_{GE}$		4.0	4.8	5.5	V
$V_{GEP}$	Gate to Emitter Plateau Voltage	$I_{CE} = 30\text{A}$ , $V_{CE} = 150\text{V}$		-	7.0	-	V

**Switching Characteristics**

SSOA	Switching SOA	$T_J = 150^\circ\text{C}$ , $R_G = 5\Omega$ , $V_{GE} = 15\text{V}$ , $L = 25\mu\text{H}$ , $V_{CE} = 300\text{V}$	150	-	-	-	A
$t_{d(ON)I}$	Current Turn-On Delay Time	IGBT and Diode at $T_J = 25^\circ\text{C}$ , $I_{CE} = 30\text{A}$ , $V_{CE} = 180\text{V}$ , $V_{GE} = 15\text{V}$ , $R_G = 5\Omega$ , $L = 100\mu\text{H}$ , Test Circuit - Figure 20	-	20	-	-	ns
$t_{rI}$	Current Rise Time		-	15	-	-	ns
$t_{d(OFF)I}$	Current Turn-Off Delay Time		-	135	-	-	ns
$t_{fI}$	Current Fall Time		-	12	-	-	ns
$E_{ON2}$	Turn-On Energy (Note 1)	IGBT and Diode at $T_J = 125^\circ\text{C}$ , $I_{CE} = 30\text{A}$ , $V_{CE} = 180\text{V}$ , $V_{GE} = 15\text{V}$ , $R_G = 5\Omega$ , $L = 100\mu\text{H}$ , Test Circuit - Figure 20	-	130	-	-	$\mu\text{J}$
$E_{OFF}$	Turn-Off Energy (Note 2)		-	92	120	-	$\mu\text{J}$
$t_{d(ON)I}$	Current Turn-On Delay Time		-	19	-	-	ns
$t_{rI}$	Current Rise Time		-	13	-	-	ns
$t_{d(OFF)I}$	Current Turn-Off Delay Time	IGBT and Diode at $T_J = 125^\circ\text{C}$ , $I_{CE} = 30\text{A}$ , $V_{CE} = 180\text{V}$ , $V_{GE} = 15\text{V}$ , $R_G = 5\Omega$ , $L = 100\mu\text{H}$ , Test Circuit - Figure 20	-	155	190	-	ns
$t_{fI}$	Current Fall Time		-	7	15	-	ns
$E_{ON2}$	Turn-On Energy (Note 1)		-	225	270	-	$\mu\text{J}$
$E_{OFF}$	Turn-Off Energy (Note 2)		-	135	200	-	$\mu\text{J}$

**Thermal Characteristics**

$R_{\theta JC}$	Thermal Resistance Junction-Case	TO-247	-	-	0.27	$^\circ\text{C/W}$
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NOTE:

1.  $E_{ON2}$  is the turn-on loss when a typical diode is used in the test circuit and the diode is at the same  $T_J$  as the IGBT. The diode type is specified in figure 20.

2. Turn-Off Energy Loss ( $E_{OFF}$ ) is defined as the integral of the instantaneous power loss starting at the trailing edge of the input pulse and ending at the point where the collector current equals zero ( $I_{CE} = 0\text{A}$ ). All devices were tested per JEDEC Standard No. 24-1 Method for Measurement of Power Device Turn-Off Switching Loss. This test method produces the true total Turn-Off Energy Loss.

# Typical Performance Curves $T_J = 25^\circ\text{C}$ unless otherwise noted

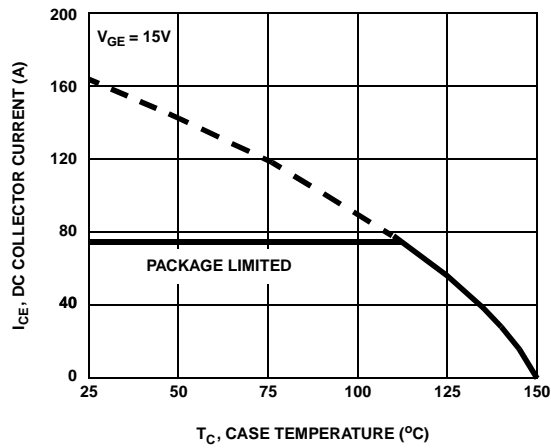


Figure 1. DC Collector Current vs Case Temperature

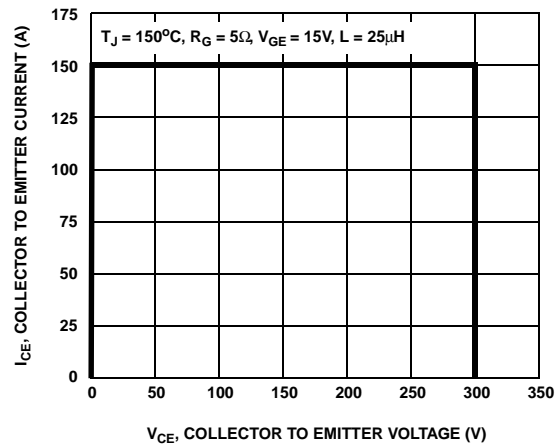


Figure 2. Minimum Switching Safe Operating Area

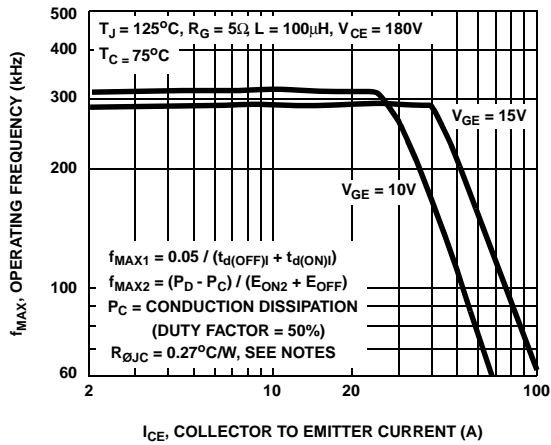


Figure 3. Operating Frequency vs Collector to Emitter Current

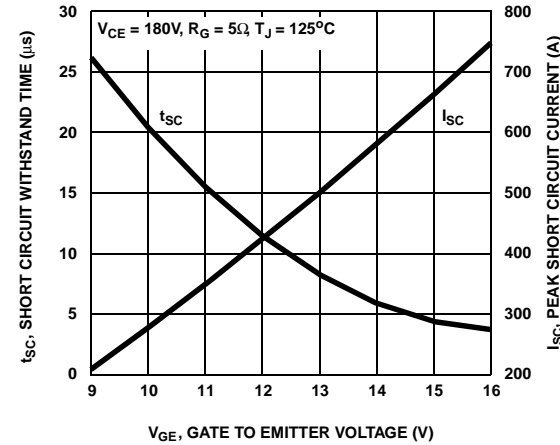


Figure 4. Short Circuit Withstand Time

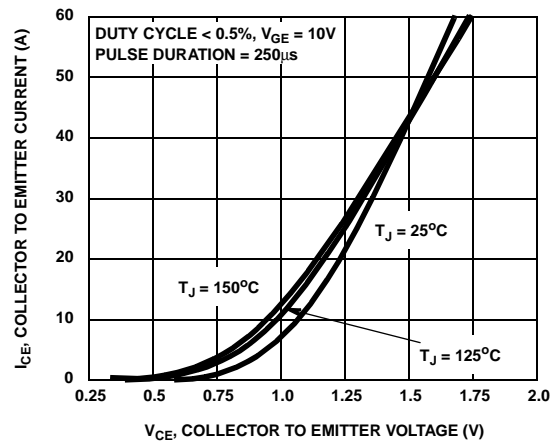


Figure 5. Collector to Emitter On-State Voltage

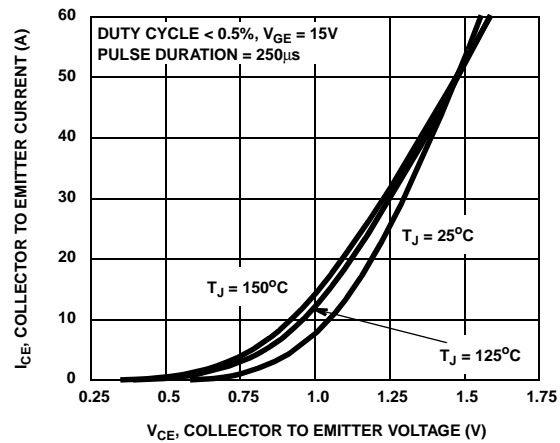


Figure 6. Collector to Emitter On-State Voltage

# Typical Performance Curves $T_J = 25^\circ\text{C}$ unless otherwise noted (Continued)

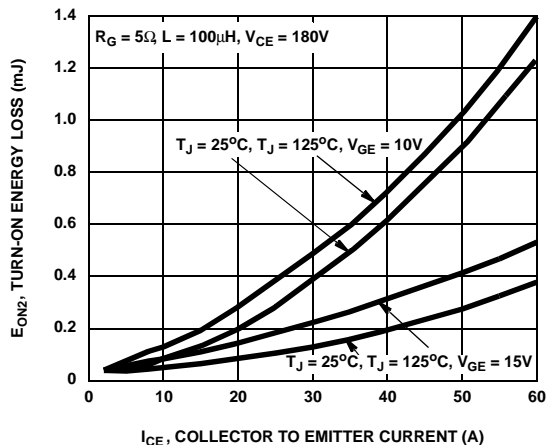


Figure 7. Turn-On Energy Loss vs Collector to Emitter Current

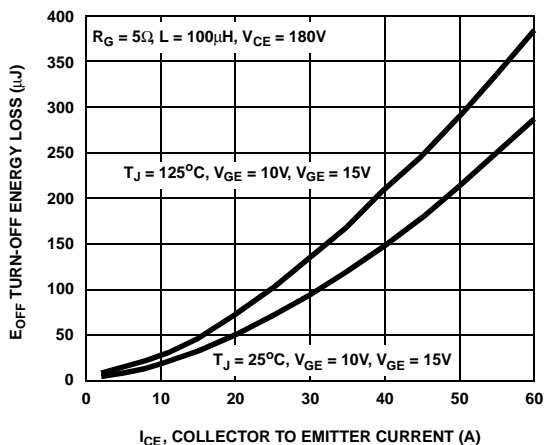


Figure 8. Turn-Off Energy Loss vs Collector to Emitter Current

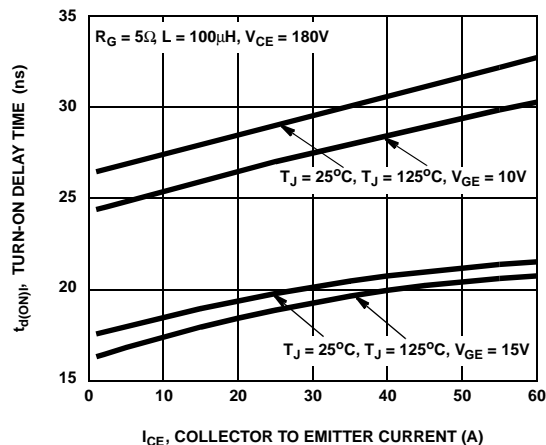


Figure 9. Turn-On Delay Time vs Collector to Emitter Current

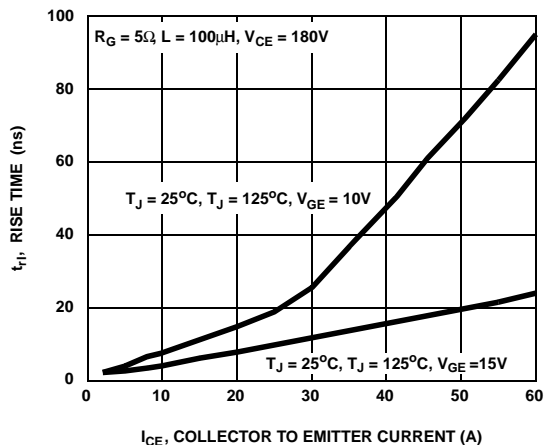


Figure 10. Turn-On Rise Time vs Collector to Emitter Current

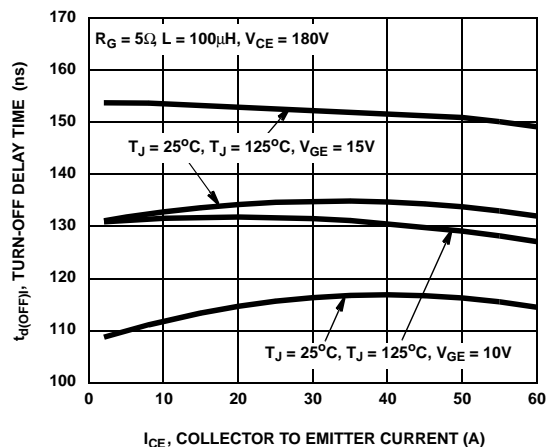


Figure 11. Turn-Off Delay Time vs Collector to Emitter Current

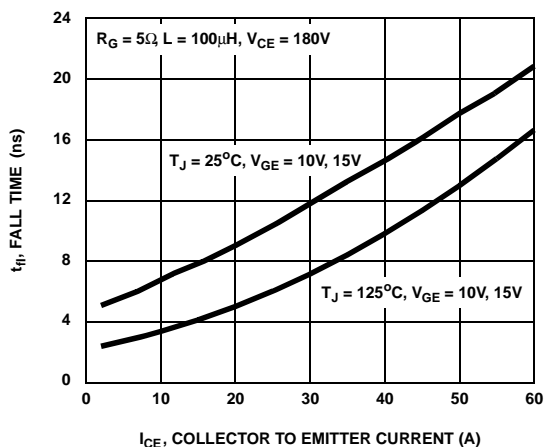
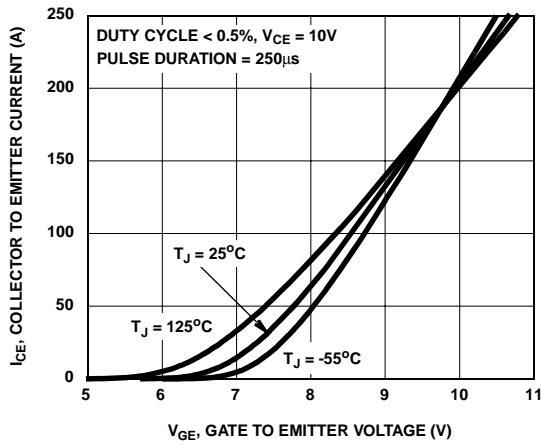
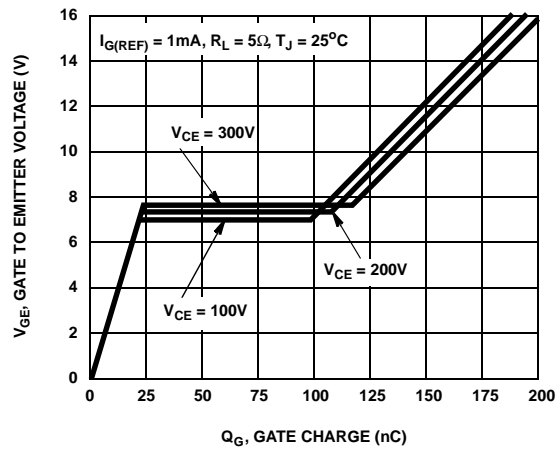


Figure 12. Fall Time vs Collector to Emitter Current

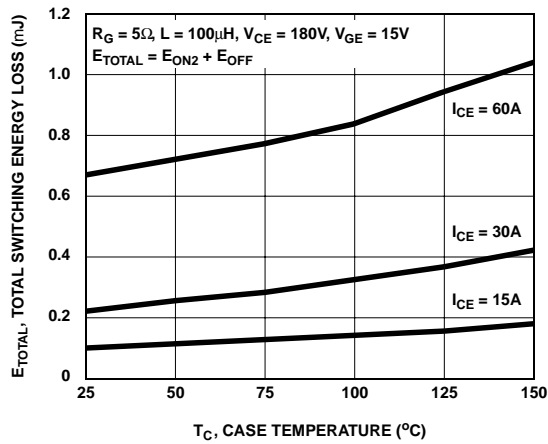
**Typical Performance Curves**  $T_J = 25^\circ\text{C}$  unless otherwise noted (Continued)



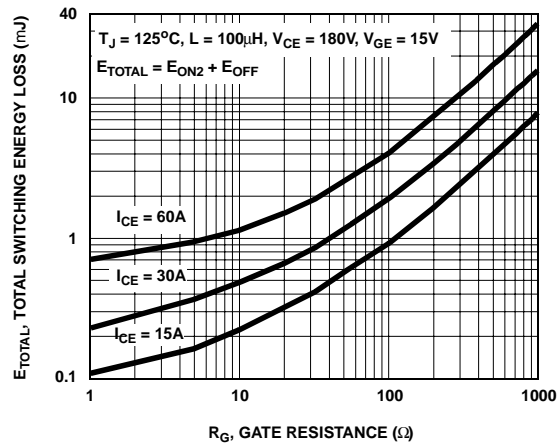
**Figure 13. Transfer Characteristic**



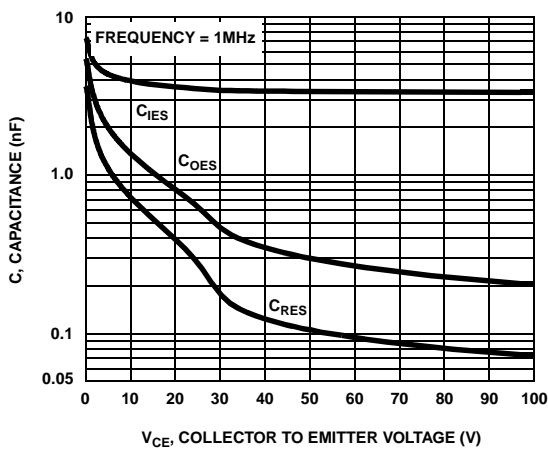
**Figure 14. Gate Charge**



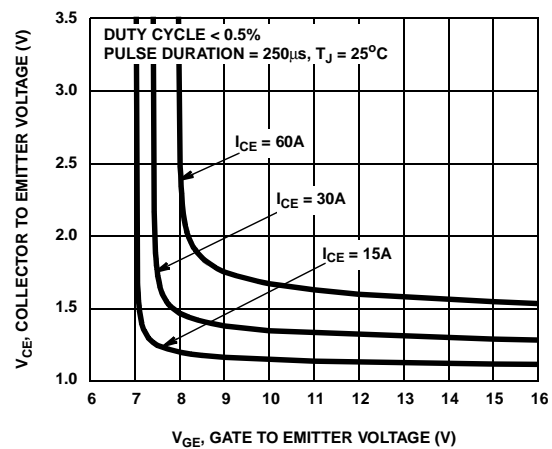
**Figure 15. Total Switching Loss vs Case Temperature**



**Figure 16. Total Switching Loss vs Gate Resistance**



**Figure 17. Capacitance vs Collector to Emitter Voltage**



**Figure 18. Collector to Emitter On-State Voltage vs Gate to Emitter Voltage**

# Typical Performance Curves $T_J = 25^\circ\text{C}$ unless otherwise noted (Continued)

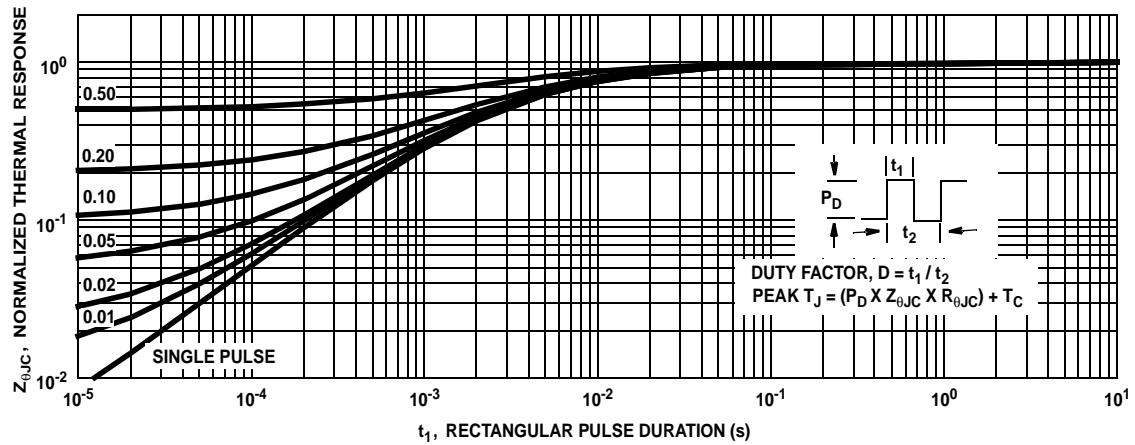


Figure 19. IGBT Normalized Transient Thermal Impedance, Junction to Case

## Test Circuit and Waveforms

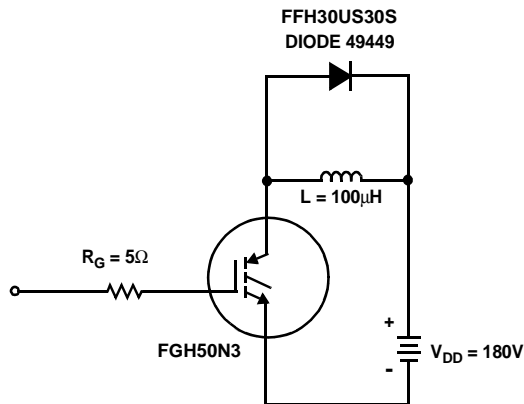


Figure 20. Inductive Switching Test Circuit

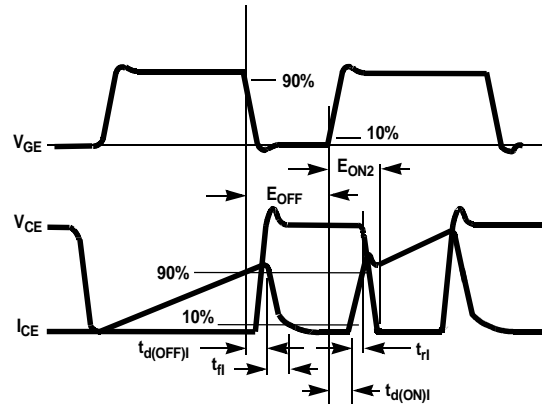


Figure 21. Switching Test Waveforms

The technical drawing illustrates the geometry of a JEDEC TO-247 package. It includes three main views: a front view at the top left, a side view at the top right, and a bottom view at the bottom center.

- Front View:** Shows the package body with mounting holes. Key dimensions include a total width of 15.87 mm (tolerance E), a central hole diameter of 3.65 mm (tolerance E), and a distance from the left edge to the center hole of 15.37 mm (tolerance E). The mounting holes have a diameter of 5.20 mm (tolerance F) and are spaced 5.58 mm apart (tolerance E).
- Side View:** Shows the profile of the package. Key dimensions include a total height of 4.82 mm (tolerance E), a base thickness of 4.58 mm (tolerance E), and a lead length of 16.25 mm (tolerance E).
- Bottom View:** Shows the underside of the package. Key dimensions include a central hole diameter of 3.65 mm (tolerance E), a distance from the center hole to the edge of 12.81 mm (tolerance E), and a minimum clearance of 13.08 mm.

Surface finish requirements are specified for several features:

- Top surface:  $\text{Ra} \leq 0.254 \mu\text{m}$  (Machined), B, A(M)
- Lead surfaces:  $\text{Ra} \leq 0.254 \mu\text{m}$  (Machined), B, A(M)

**NOTES: UNLESS OTHERWISE SPECIFIED.**

- PACKAGE REFERENCE: JEDEC TO-247, ISSUE E, VARIATION AB, DATED JUNE,
- DIMENSIONS ARE EXCLUSIVE OF BURR FLASH, AND TIE BAR EXTRUSIONS.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- DRAWING CONFORMS TO ASME Y14.5 -

**TOLERANCE SYMBOLS:**

- (E) DOES NOT COMPLY JEDEC STANDARD
- (F) NOTCH MAY BE SQUARE

**G. DRAWING FILENAME: MKT-TO247A03\_F**

NOTES: UNLESS OTHERWISE SPECIFIED.

- A. PACKAGE REFERENCE: JEDEC TO-247,  
ISSUE E, VARIATION AB, DATED JUNE, 2004.  
B. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD  
FLASH, AND TIE BAR EXTRUSIONS.  
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Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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.
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

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