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March 2016

# FGH40T70SHD 700 V, 40 A Field Stop Trench IGBT

## Features

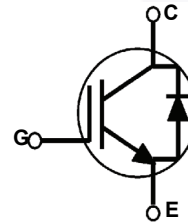
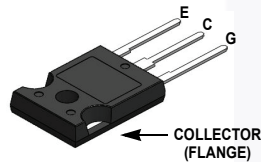
- Maximum Junction Temperature :  $T_J = 175^\circ\text{C}$
- Positive Temperature Co-efficient for Easy Parallel Operating
- High Current Capability
- Low Saturation Voltage:  $V_{CE(sat)} = 1.7\text{ V(Typ.) @ } I_C = 40\text{ A}$
- 100% of the Parts Tested for  $I_{LM}(1)$
- High Input Impedance
- Fast Switching
- Tighten Parameter Distribution
- RoHS Compliant

## General Description

Using novel field stop IGBT technology, Fairchild's new series of field stop 3<sup>rd</sup> generation IGBTs offer the optimum performance for solar inverter, UPS, welder, telecom, ESS and PFC applications where low conduction and switching losses are essential.

## Applications

- Solar Inverter, UPS, Welder, Telecom, ESS, PFC



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

Symbol	Description	FGH40T70SHD_F155	Unit
$V_{CES}$	Collector to Emitter Voltage	700	V
$V_{GES}$	Gate to Emitter Voltage	$\pm 20$	V
	Transient Gate to Emitter Voltage	$\pm 30$	V
$I_C$	Collector Current @ $T_C = 25^\circ\text{C}$	80	A
	Collector Current @ $T_C = 100^\circ\text{C}$	40	A
$I_{LM}(1)$	Pulsed Collector Current @ $T_C = 25^\circ\text{C}$	120	A
$I_{CM}(2)$	Pulsed Collector Current	120	A
$I_F$	Diode Forward Current @ $T_C = 25^\circ\text{C}$	40	A
	Diode Forward Current @ $T_C = 100^\circ\text{C}$	20	A
$I_{FM}(2)$	Pulsed Diode Maximum Forward Current	120	A
$P_D$	Maximum Power Dissipation @ $T_C = 25^\circ\text{C}$	268	W
	Maximum Power Dissipation @ $T_C = 100^\circ\text{C}$	134	W
$T_J$	Operating Junction Temperature	-55 to +175	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55 to +175	$^\circ\text{C}$
$T_L$	Maximum Lead Temp. for soldering Purposes, 1/8" from case for 5 seconds	300	$^\circ\text{C}$

### Notes:

1.  $V_{CC} = 400\text{ V}$ ,  $V_{GE} = 15\text{ V}$ ,  $I_C = 120\text{ A}$ ,  $R_G = 30\ \Omega$ , Inductive Load
2. Repetitive rating: Pulse width limited by max. junction temperature

## Thermal Characteristics

Symbol	Parameter	FGH40T70SHD_F155	Unit
$R_{\theta JC}(IGBT)$	Thermal Resistance, Junction to Case, Max.	0.56	$^{\circ}C/W$
$R_{\theta JC}(Diode)$	Thermal Resistance, Junction to Case, Max.	1.71	$^{\circ}C/W$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max.	40	$^{\circ}C/W$

## Package Marking and Ordering Information

Part Number	Top Mark	Package	Packing Method	Reel Size	Tape Width	Quantity
FGH40T70SHD_F155	FGH40T70SHD	TO-247 G03	Tube	N/A	N/A	30

## Electrical Characteristics of the IGBT $T_C = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
<b>Off Characteristics</b>						
$BV_{CES}$	Collector to Emitter Breakdown Voltage	$V_{GE} = 0V, I_C = 1\text{ mA}$	700	-	-	V
$\Delta BV_{CES} / \Delta T_J$	Temperature Coefficient of Breakdown Voltage	$I_C = 1\text{ mA}$ , Reference to $25^{\circ}C$	-	0.6	-	$V/^{\circ}C$
$I_{CES}$	Collector Cut-Off Current	$V_{CE} = V_{CES}, V_{GE} = 0\text{ V}$	-	-	250	$\mu A$
$I_{GES}$	G-E Leakage Current	$V_{GE} = V_{GES}, V_{CE} = 0\text{ V}$	-	-	$\pm 400$	nA
<b>On Characteristics</b>						
$V_{GE(th)}$	G-E Threshold Voltage	$I_C = 40\text{ mA}, V_{CE} = V_{GE}$	4.0	5.5	7.5	V
$V_{CE(sat)}$	Collector to Emitter Saturation Voltage	$I_C = 40\text{ A}, V_{GE} = 15\text{ V}$	-	1.7	2.15	V
		$I_C = 40\text{ A}, V_{GE} = 15\text{ V}, T_C = 175^{\circ}C$	-	2.37	-	V
<b>Dynamic Characteristics</b>						
$C_{ies}$	Input Capacitance	$V_{CE} = 30\text{ V}, V_{GE} = 0\text{ V}, f = 1\text{ MHz}$	-	2028	-	pF
$C_{oes}$	Output Capacitance		-	75	-	pF
$C_{res}$	Reverse Transfer Capacitance		-	26	-	pF
<b>Switching Characteristics</b>						
$t_{d(on)}$	Turn-On Delay Time	$V_{CC} = 400\text{ V}, I_C = 40\text{ A}, R_G = 6\ \Omega, V_{GE} = 15\text{ V},$ Inductive Load, $T_C = 25^{\circ}C$	-	22	-	ns
$t_r$	Rise Time		-	40	-	ns
$t_{d(off)}$	Turn-Off Delay Time		-	66	-	ns
$t_f$	Fall Time		-	10	-	ns
$E_{on}$	Turn-On Switching Loss		-	1150	-	$\mu J$
$E_{off}$	Turn-Off Switching Loss		-	271	-	$\mu J$
$E_{ts}$	Total Switching Loss		-	1421	-	$\mu J$
$t_{d(on)}$	Turn-On Delay Time	$V_{CC} = 400\text{ V}, I_C = 40\text{ A}, R_G = 6\ \Omega, V_{GE} = 15\text{ V},$ Inductive Load, $T_C = 175^{\circ}C$	-	20	-	ns
$t_r$	Rise Time		-	36	-	ns
$t_{d(off)}$	Turn-Off Delay Time		-	68	-	ns
$t_f$	Fall Time		-	13	-	ns
$E_{on}$	Turn-On Switching Loss		-	1760	-	$\mu J$
$E_{off}$	Turn-Off Switching Loss		-	455	-	$\mu J$
$E_{ts}$	Total Switching Loss		-	2215	-	$\mu J$

**Electrical Characteristics of the IGBT** (Continued)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max	Unit
$Q_g$	Total Gate Charge	$V_{CE} = 400\text{ V}, I_C = 40\text{ A},$ $V_{GE} = 15\text{ V}$	-	69	-	nC
$Q_{ge}$	Gate to Emitter Charge		-	13	-	nC
$Q_{gc}$	Gate to Collector Charge		-	26	-	nC

**Electrical Characteristics of the Diode**  $T_C = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Typ.	Max	Unit	
$V_{FM}$	Diode Forward Voltage	$I_F = 20\text{ A}$	$T_C = 25^\circ\text{C}$	-	2.0	2.5	V
			$T_C = 175^\circ\text{C}$	-	1.73	-	
$E_{rec}$	Reverse Recovery Energy	$I_F = 20\text{ A}, dI_F/dt = 200\text{ A}/\mu\text{s}$	$T_C = 175^\circ\text{C}$	-	54	-	uJ
$t_{rr}$	Diode Reverse Recovery Time		$T_C = 25^\circ\text{C}$	-	37	-	ns
			$T_C = 175^\circ\text{C}$	-	235	-	
$Q_{rr}$	Diode Reverse Recovery Charge		$T_C = 25^\circ\text{C}$	-	65	-	nC
		$T_C = 175^\circ\text{C}$	-	944	-		

## Typical Performance Characteristics

Figure 1. Typical Output Characteristics

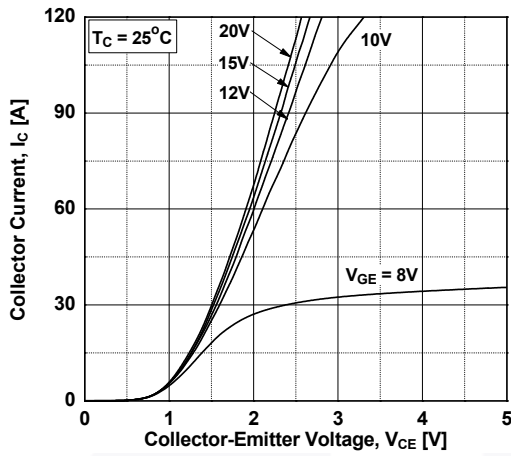


Figure 2. Typical Output Characteristics

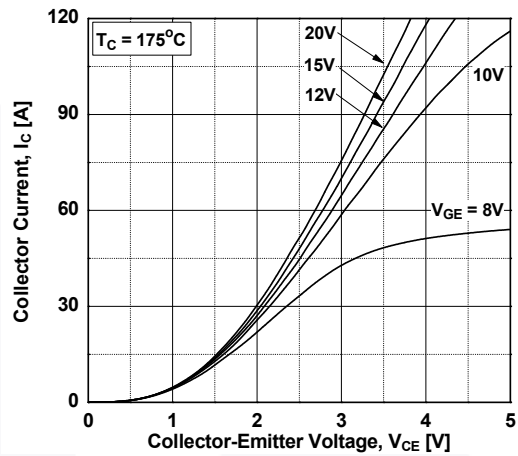


Figure 3. Typical Saturation Voltage Characteristics

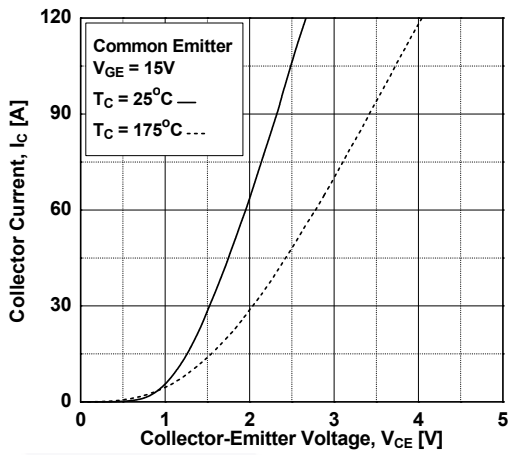


Figure 4. Saturation Voltage vs. Case Temperature at Variant Current Level

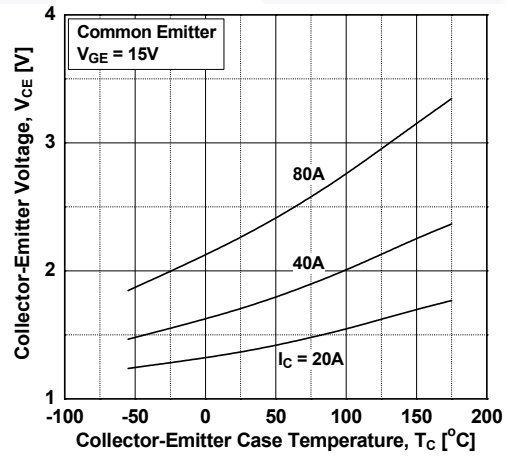


Figure 5. Saturation Voltage vs. Vge

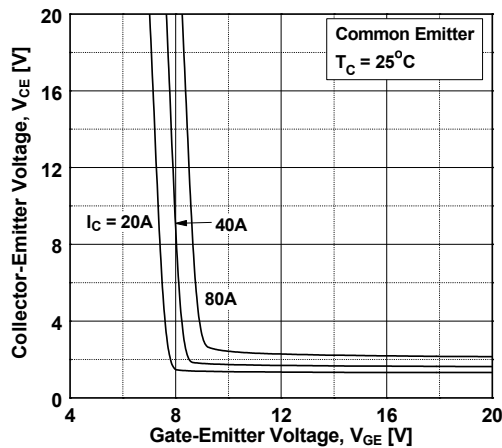
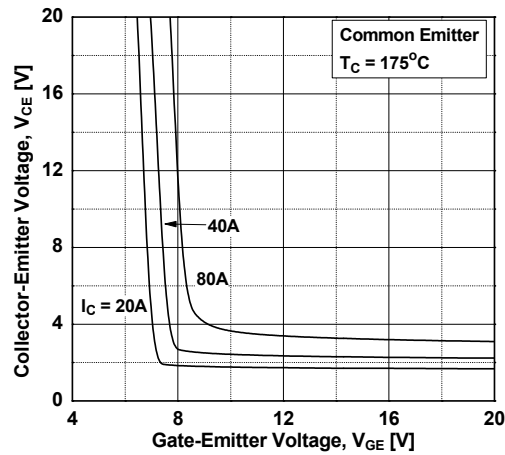


Figure 6. Saturation Voltage vs. Vge



## Typical Performance Characteristics

Figure 7. Capacitance Characteristics

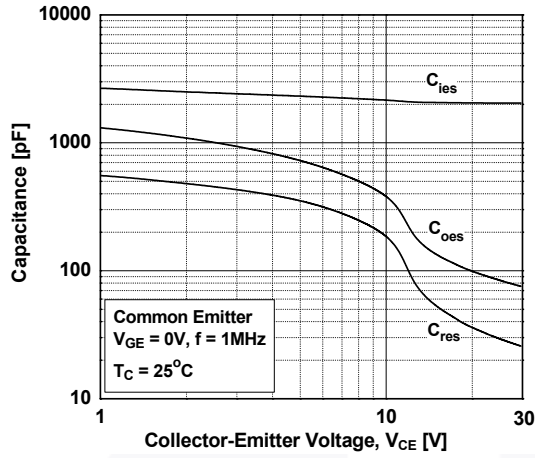


Figure 8. Gate charge Characteristics

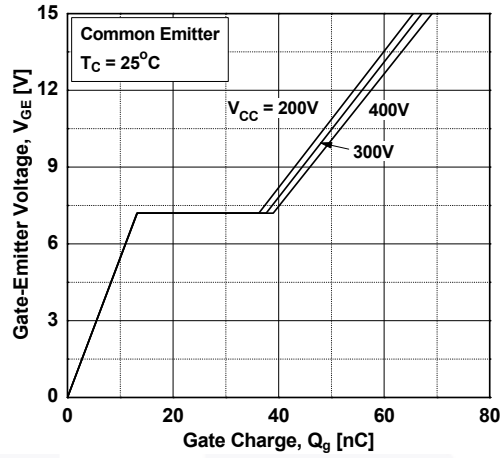


Figure 9. Turn-on Characteristics vs. Gate Resistance

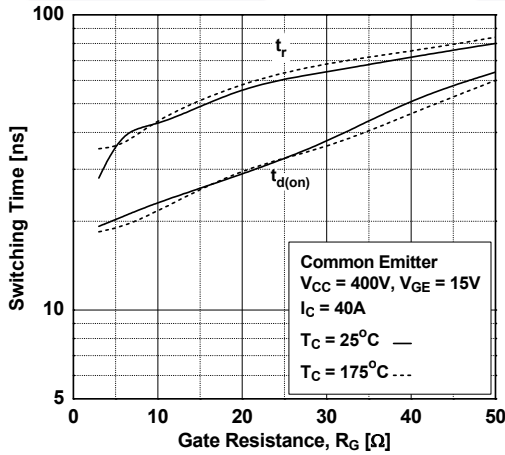


Figure 10. Turn-off Characteristics vs. Gate Resistance

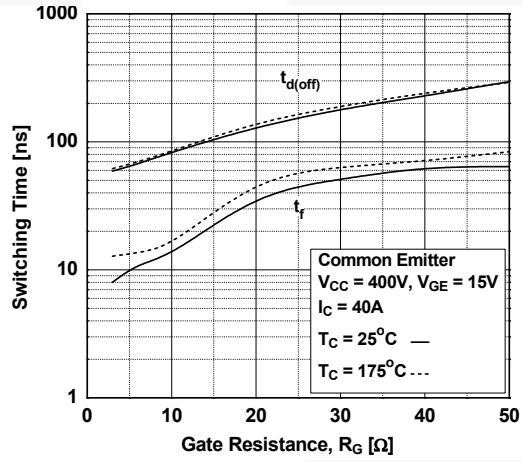


Figure 11. Switching Loss vs. Gate Resistance

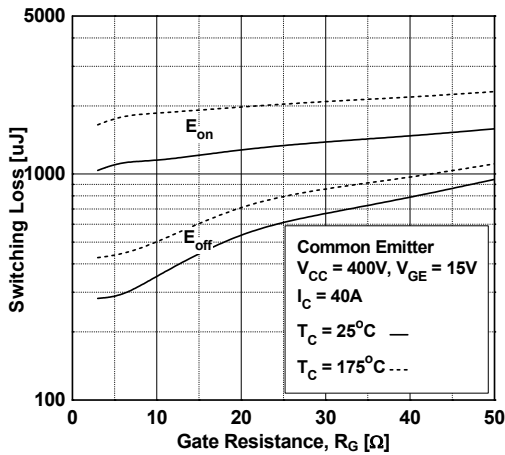
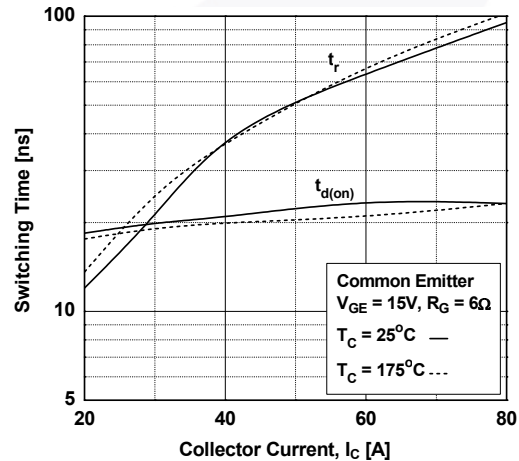
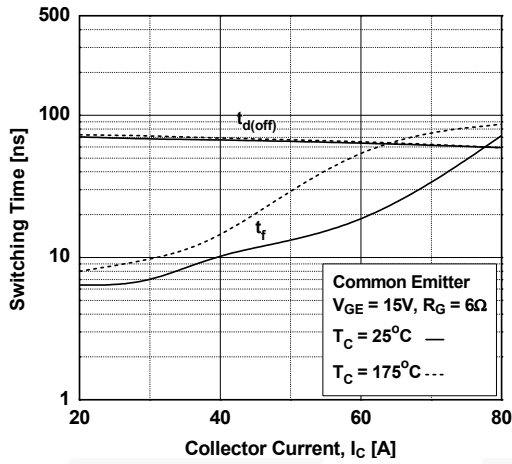


Figure 12. Turn-on Characteristics vs. Collector Current

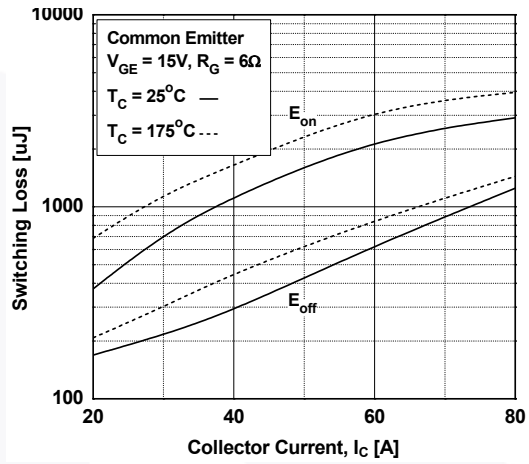


## Typical Performance Characteristics

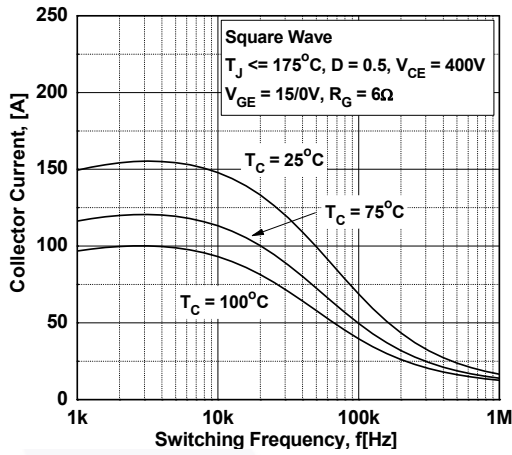
**Figure 13. Turn-off Characteristics vs. Collector Current**



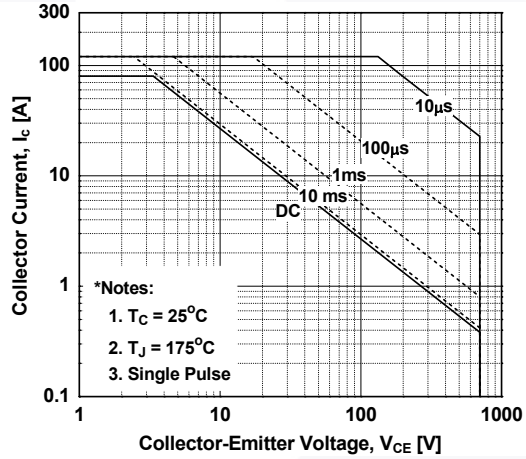
**Figure 14. Switching Loss vs. Collector Current**



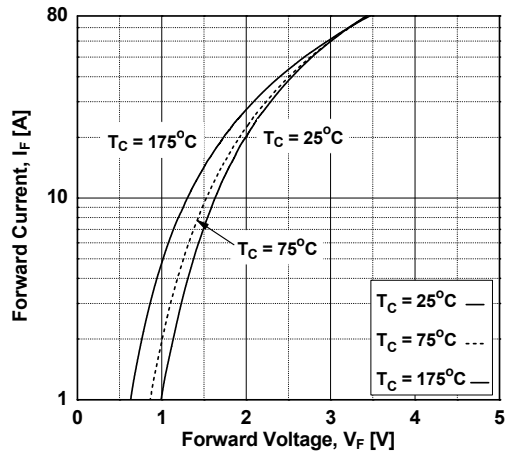
**Figure 15. Load Current Vs. Frequency**



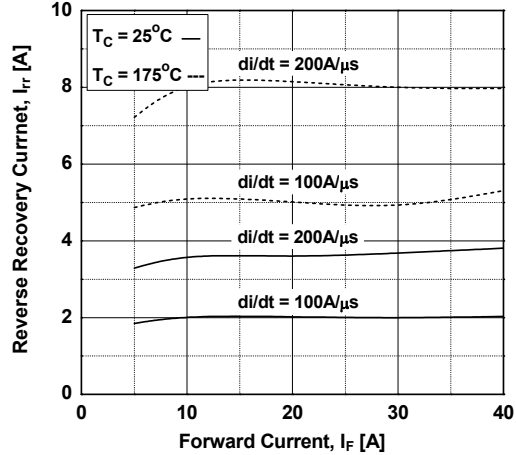
**Figure 16. SOA Characteristics**



**Figure 17. Forward Characteristics**



**Figure 18. Reverse Recovery Current**



## Typical Performance Characteristics

Figure 19. Reverse Recovery Time

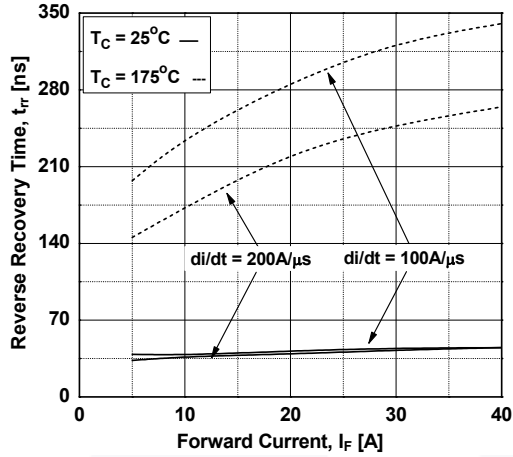


Figure 20. Stored Charge

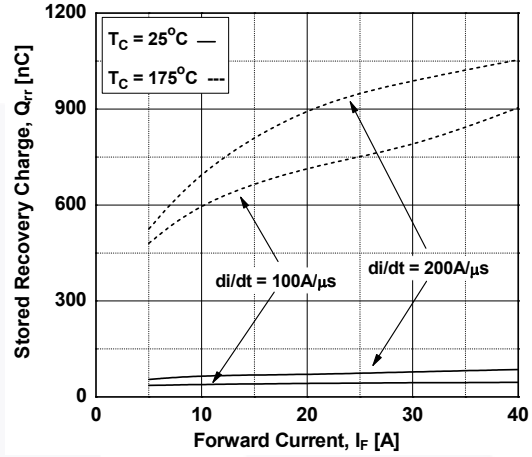


Figure 21. Transient Thermal Impedance of IGBT

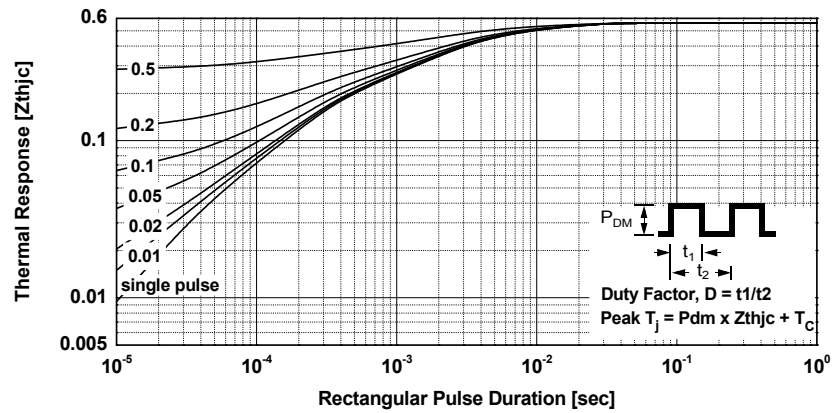
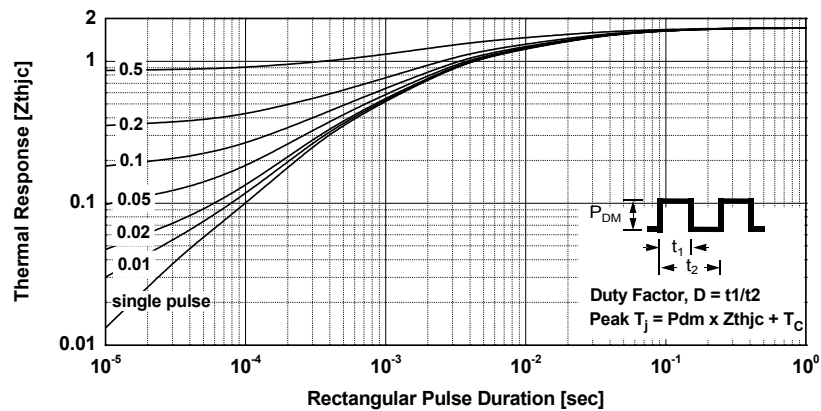
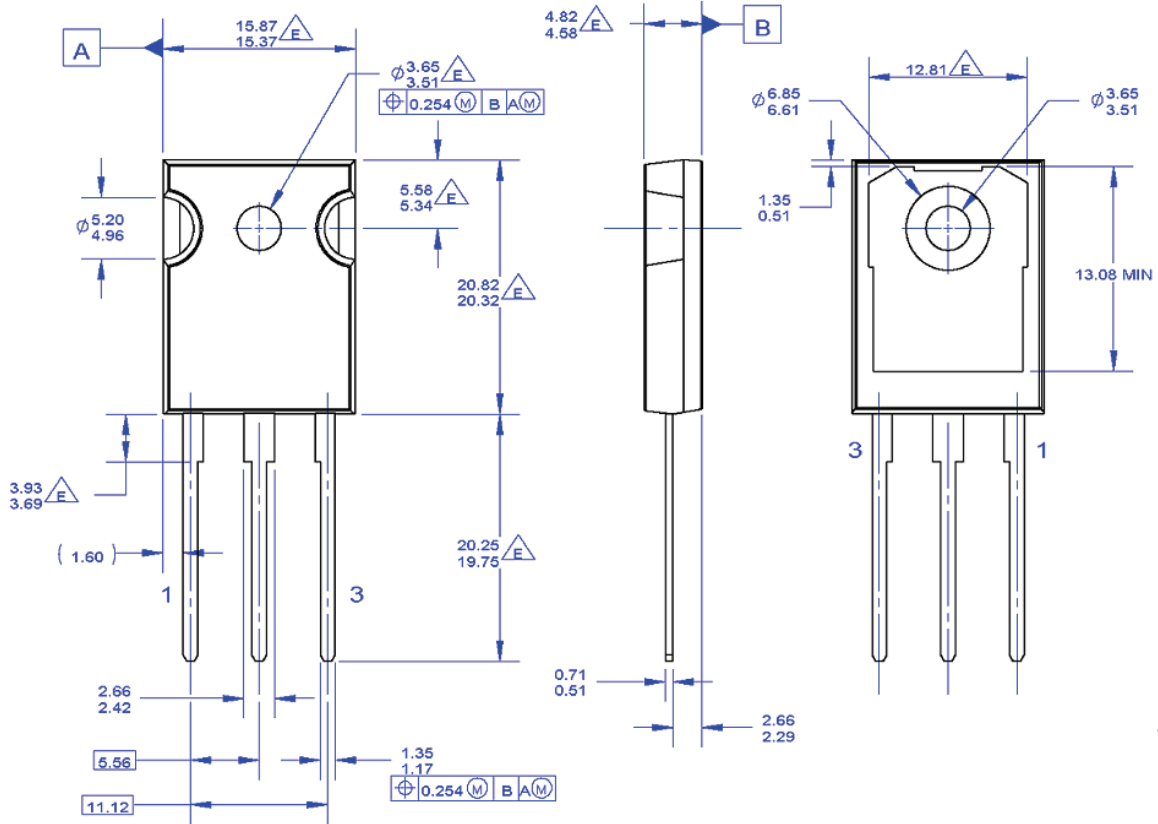


Figure 22. Transient Thermal Impedance of Diode





**Mechanical Dimensions**



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- 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.
  - C. ALL DIMENSIONS ARE IN MILLIMETERS.
  - D. DRAWING CONFORMS TO ASME Y14.5 - 1994
  - E. DOES NOT COMPLY JEDEC STANDARD VALUE
  - F. DRAWING FILENAME: MKT-TO247G03\_REV01

**Figure 23. TO-247 3L - TO-247, MOLDED, 3 LEADS, JEDEC AB LONG LEADS**

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| AttitudeEngine™          | FRFET®  |                                       |                  |
| Awinda®                  | Global Power ResourceSM                         |                                       | TinyBoost®       |
| AX-CAP®*                 | GreenBridge™                                    | Power Supply WebDesigner™             | TinyBuck®        |
| BitSiC™                  | Green FPS™                                      | PowerTrench®                          | TinyCalc™        |
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| CorePOWER™               | GTO™  | QFET®                                 | TinyPower™       |
| CROSSVOLT™               | IntelliMAX™                                     | QS™                                   | TinyPWM™         |
| CTL™                     | ISOPLANAR™                                      | Quiet Series™                         | TinyWire™        |
| Current Transfer Logic™  | Marking Small Speakers Sound Louder and Better™ | RapidConfigure™                       | TranSiC™         |
| DEUXPEED®                | MegaBuck™                                       |                                       | TriFault Detect™ |
| Dual Cool™               | MICROCOUPLER™                                   | Saving our world, 1mW/W/kW at a time™ | TRUECURRENT®*    |
| EcoSPARK®                | MicroFET™                                       | SignalWise™                           | μSerDes™         |
| EfficientMax™            | MicroPak™                                       | SmartMax™                             |                  |
| ESBC™                    | MicroPak2™                                      | SMART START™                          | UHC®             |
|                          | MillerDrive™                                    | Solutions for Your Success™           | Ultra FRFET™     |
| Fairchild®               | MotionMax™                                      | SPM®                                  | UniFET™          |
| Fairchild Semiconductor® | MotionGrid®                                     | STEALTH™                              | VCX™             |
| FACT Quiet Series™       | MTi®  | SuperFET®                             | VisualMax™       |
| FACT®                    | MTx®  | SuperSOT™-3                           | VoltagePlus™     |
| FastvCore™               | MVN®  | SuperSOT™-6                           | XS™              |
| FETBench™                | mWSaver®  | SuperSOT™-8                           | Xsens™           |
| FPS™                     | OptoHiT™  | SupreMOS®                             | 仙童®              |
|                          | OPTOLOGIC®                                      | SyncFET™                              |                  |
|                          |   | Sync-Lock™                            |                  |

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**Definition of Terms**

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.
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