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July 2015

# FGA3060ADF

## 600 V, 30 A Field Stop Trench IGBT

### Features

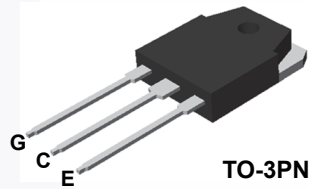
- Maximum Junction Temperature :  $T_J = 175^{\circ}\text{C}$
- Positive Temperature Co-efficient for Easy Parallel Operating
- High Current Capability
- Low Saturation Voltage:  $V_{CE(sat)} = 1.8 \text{ V(Typ.) @ } I_C = 30 \text{ A}$
- 100% of the Parts Tested for  $I_{LM}(1)$
- High Input Impedance
- Fast Switching
- Tighten Parameter Distribution
- RoHS Compliant

### General Description

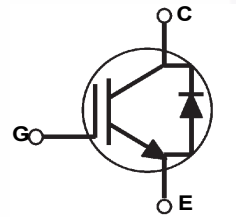
This ADF IGBT series adopted Field Stop Trench 3rd generation IGBT which offer extreme low  $V_{ce(sat)}$  and much faster switching characteristics for outstanding efficiency. And this kind of technology is fully optimized to variety PFC (Power Factor Correction) topology ; Single boost, Multi channel interleaved etc with over 20KHz switching performance. TO3P package provide Super Low thermal resistance for much wider SOA for system stability.

### Applications

- PFC topology for Home appliance : Single Boost , Multi channel Interleaved etc.



TO-3PN



### Absolute Maximum Ratings

Symbol	Description	FGA3060ADF	Unit
$V_{CES}$	Collector to Emitter Voltage	600	V
$V_{GES}$	Gate to Emitter Voltage	$\pm 20$	V
	Transient Gate to Emitter Voltage	$\pm 30$	V
$I_C$	Collector Current @ $T_C = 25^{\circ}\text{C}$	60	A
	Collector Current @ $T_C = 100^{\circ}\text{C}$	30	A
$I_{LM}(1)$	Pulsed Collector Current @ $T_C = 25^{\circ}\text{C}$	90	A
$I_{CM}(2)$	Pulsed Collector Current	90	A
$I_F(3)$	Diode Forward Current @ $T_C = 25^{\circ}\text{C}$	3	A
	Diode Forward Current @ $T_C = 100^{\circ}\text{C}$	1.5	A
$I_{FM}(2)$	Pulsed Diode Maximum Forward Current	6	A
$P_D$	Maximum Power Dissipation @ $T_C = 25^{\circ}\text{C}$	176	W
	Maximum Power Dissipation @ $T_C = 100^{\circ}\text{C}$	88	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.  $V_{CC} = 400 \text{ V}$ ,  $V_{GE} = 15 \text{ V}$ ,  $I_C = 90 \text{ A}$ ,  $R_G = 120 \Omega$ , Inductive Load.
2. Repetitive rating: Pulse width limited by max. junction temperature.
3. The purpose of diode is protection for negative voltage.

## Thermal Characteristics

Symbol	Parameter	FGA3060ADF	Unit
$R_{\theta JC}(IGBT)$	Thermal Resistance, Junction to Case, Max.	0.85	$^{\circ}C/W$
$R_{\theta JC}(Diode)$	Thermal Resistance, Junction to Case, Max.	5	$^{\circ}C/W$
$R_{\theta JA}$	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
FGA3060ADF	FGA3060ADF	TO-3PN	Tube	-	-	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	$V_{GE} = 0 V, I_C = 1 mA$	600	-	-	V
$\Delta BV_{CES} / \Delta T_J$	Temperature Coefficient of Breakdown Voltage	$I_C = 1 mA$ , Reference to $25^{\circ}C$	-	0.52	-	$V/^{\circ}C$
$I_{CES}$	Collector Cut-Off Current	$V_{CE} = V_{CES}, V_{GE} = 0 V$	-	-	250	$\mu A$
$I_{GES}$	G-E Leakage Current	$V_{GE} = V_{GES}, V_{CE} = 0 V$	-	-	$\pm 400$	nA
<b>On Characteristics</b>						
$V_{GE(th)}$	G-E Threshold Voltage	$I_C = 30 mA, V_{CE} = V_{GE}$	4.1	5.6	7.6	V
$V_{CE(sat)}$	Collector to Emitter Saturation Voltage	$I_C = 30 A, V_{GE} = 15 V$	-	1.8	2.3	V
		$I_C = 30 A, V_{GE} = 15 V, T_C = 175^{\circ}C$	-	2.4	-	V
<b>Dynamic Characteristics</b>						
$C_{ies}$	Input Capacitance	$V_{CE} = 30 V, V_{GE} = 0 V, f = 1MHz$	-	1072	-	pF
$C_{oes}$	Output Capacitance		-	36	-	pF
$C_{res}$	Reverse Transfer Capacitance		-	13	-	pF
<b>Switching Characteristics</b>						
$t_{d(on)}$	Turn-On Delay Time	$V_{CC} = 400 V, I_C = 30 A, R_G = 6 \Omega, V_{GE} = 15 V, \text{Inductive Load}, T_C = 25^{\circ}C$	-	12	-	ns
$t_r$	Rise Time		-	19.2	-	ns
$t_{d(off)}$	Turn-Off Delay Time		-	42.4	-	ns
$t_f$	Fall Time		-	7.2	-	ns
$E_{on}$	Turn-On Switching Loss		-	960	-	$\mu J$
$E_{off}$	Turn-Off Switching Loss		-	165	-	$\mu J$
$E_{ts}$	Total Switching Loss		-	1125	-	$\mu J$
$t_{d(on)}$	Turn-On Delay Time	$V_{CC} = 400 V, I_C = 30 A, R_G = 6 \Omega, V_{GE} = 15 V, \text{Inductive Load}, T_C = 175^{\circ}C$	-	12.8	-	ns
$t_r$	Rise Time		-	27.2	-	ns
$t_{d(off)}$	Turn-Off Delay Time		-	46.4	-	ns
$t_f$	Fall Time		-	12.8	-	ns
$E_{on}$	Turn-On Switching Loss		-	1430	-	$\mu J$
$E_{off}$	Turn-Off Switching Loss		-	310	-	$\mu J$
$E_{ts}$	Total Switching Loss		-	1740	-	$\mu J$

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

Symbol	Parameter	Test Conditions	Min.	Typ.	Max	Unit
$Q_g$	Total Gate Charge	$V_{CE} = 400\text{ V}$ , $I_C = 30\text{ A}$ , $V_{GE} = 15\text{ V}$	-	37.4	-	nC
$Q_{ge}$	Gate to Emitter Charge		-	7.2	-	nC
$Q_{gc}$	Gate to Collector Charge		-	15	-	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	$I_F = 3\text{ A}$	$T_C = 25^\circ\text{C}$	-	1.6	2.3	V
			$T_C = 175^\circ\text{C}$	-	1.4	-	
$E_{rec}$	Reverse Recovery Energy	$I_F = 3\text{ A}$ , $di_F/dt = 200\text{ A}/\mu\text{s}$ , $V_R = 400\text{ V}$	$T_C = 175^\circ\text{C}$	-	29.7	-	$\mu\text{J}$
$t_{rr}$	Diode Reverse Recovery Time		$T_C = 25^\circ\text{C}$	-	26	-	ns
			$T_C = 175^\circ\text{C}$	-	153	-	
$Q_{rr}$	Diode Reverse Recovery Charge		$T_C = 25^\circ\text{C}$	-	35	-	nC
		$T_C = 175^\circ\text{C}$	-	305	-		

## Typical Performance Characteristics

Figure 1. Typical Output Characteristics

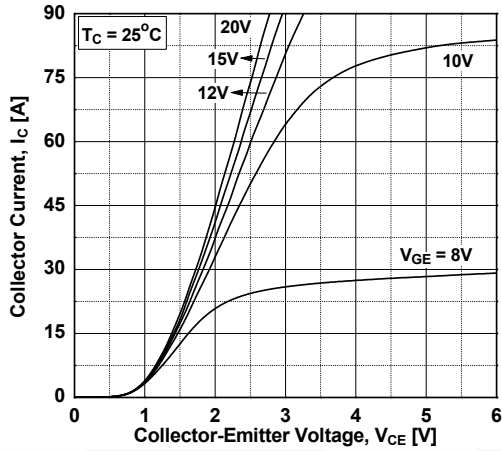


Figure 2. Typical Output Characteristics

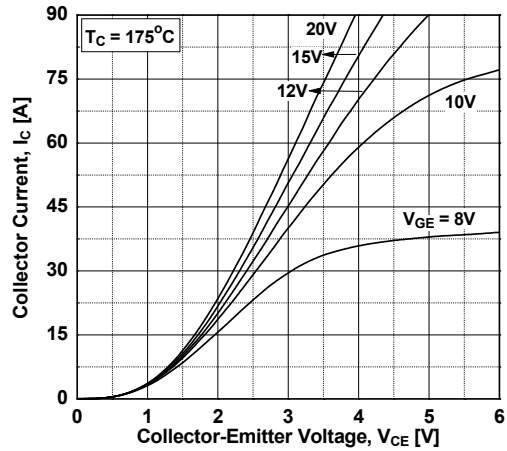


Figure 3. Typical Saturation Voltage Characteristics

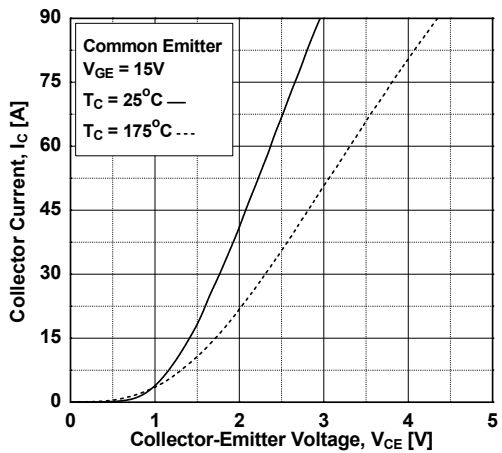


Figure 4. Saturation Voltage vs. Case Temperature at Variant Current Level

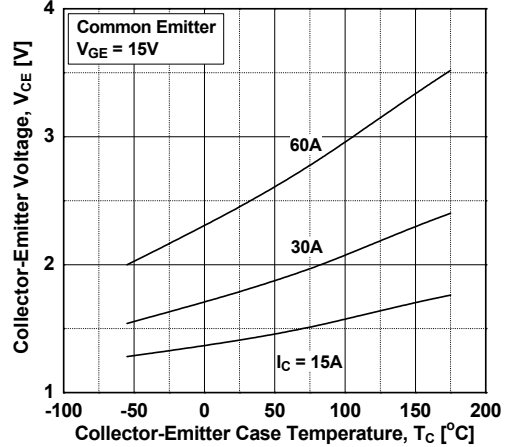


Figure 5. Saturation Voltage vs. Vge

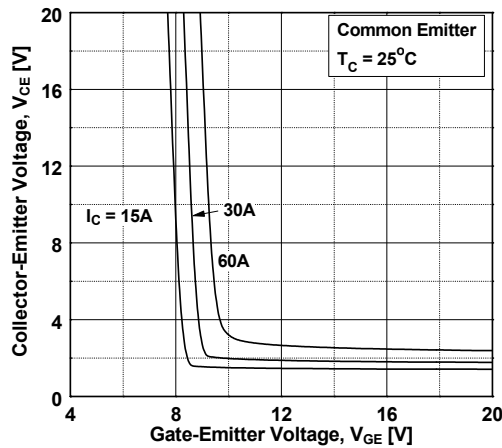
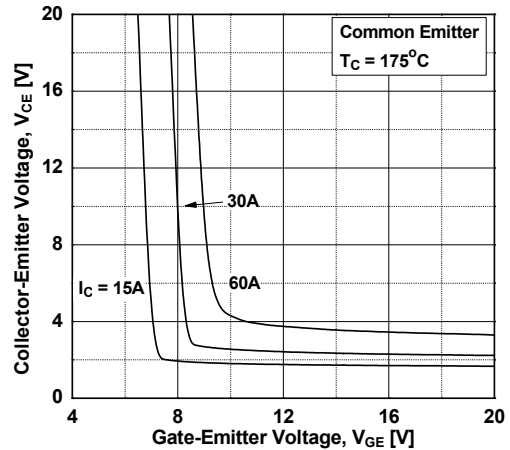


Figure 6. Saturation Voltage vs. Vge



## Typical Performance Characteristics

Figure 7. Capacitance Characteristics

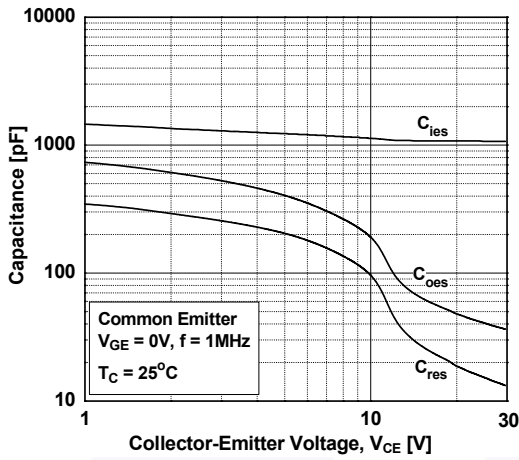


Figure 8. Gate charge Characteristics

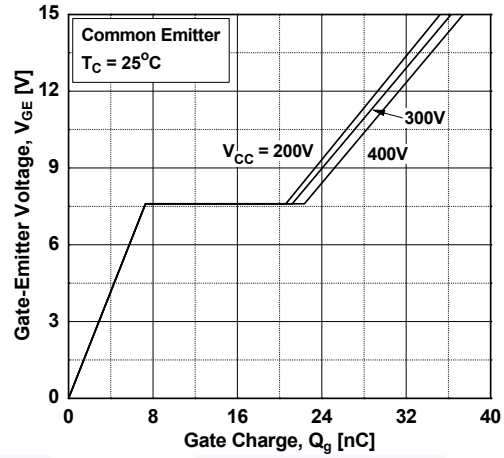


Figure 9. Turn-on Characteristics vs. Gate Resistance

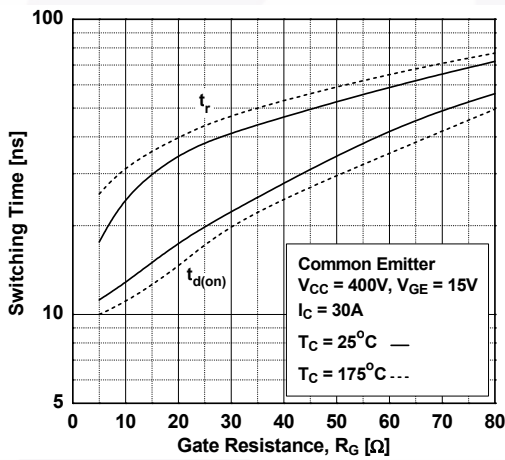


Figure 10. Turn-off Characteristics vs. Gate Resistance

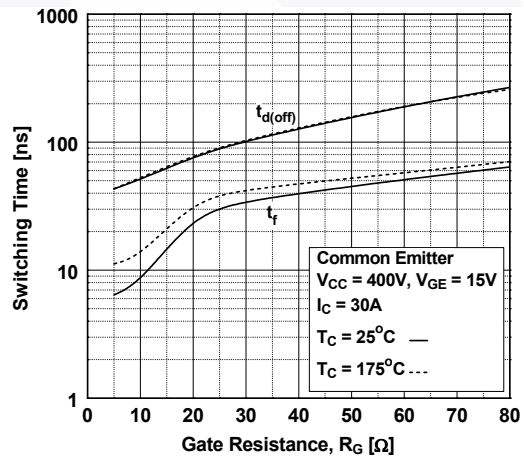


Figure 11. Switching Loss vs. Gate Resistance

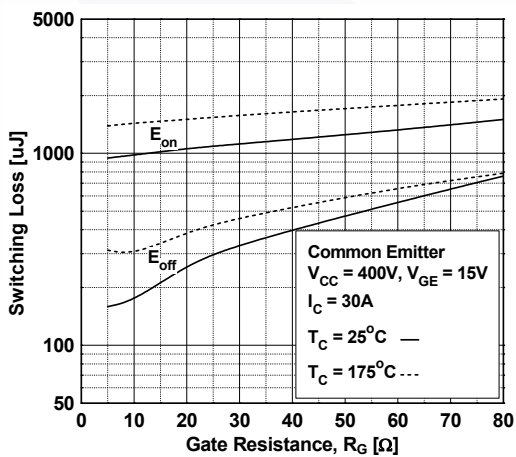
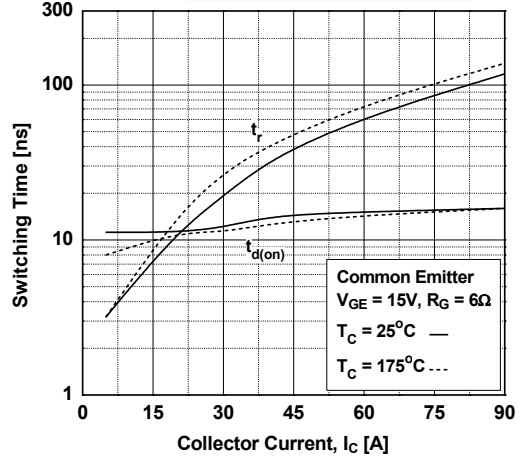
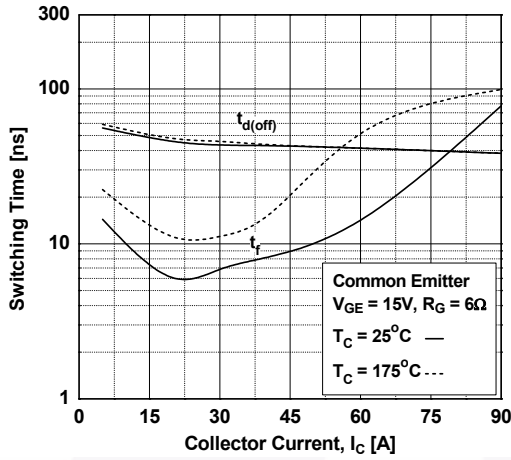


Figure 12. Turn-on Characteristics vs. Collector Current

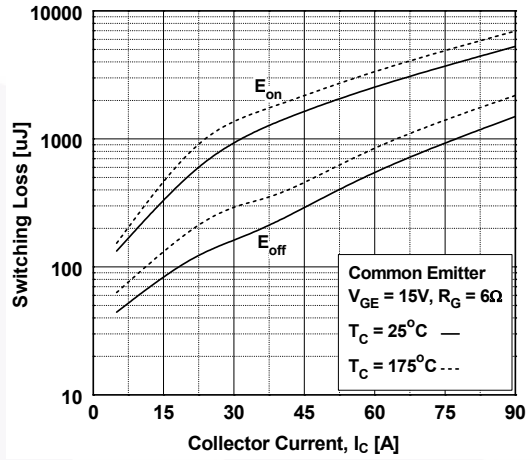


## Typical Performance Characteristics

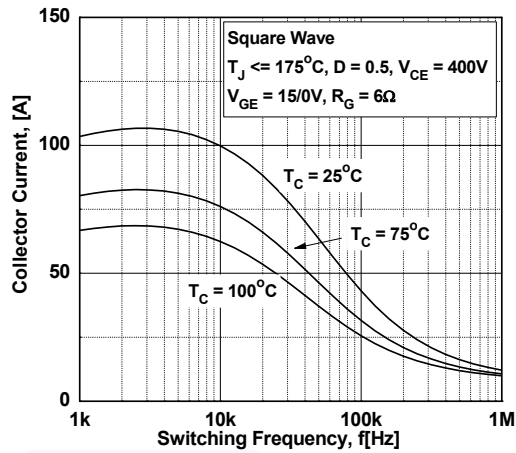
**Figure 13. Turn-off Characteristics vs. Collector Current**



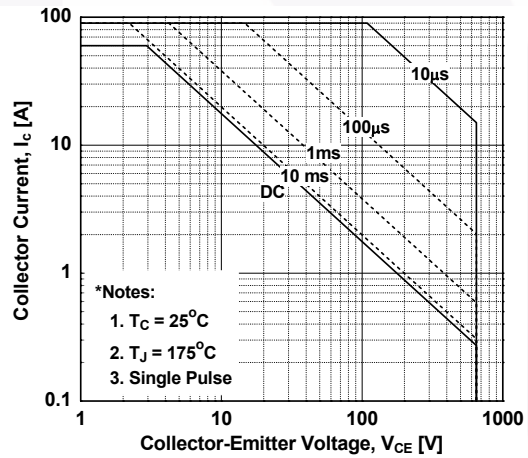
**Figure 14. Switching Loss vs. Collector Current**



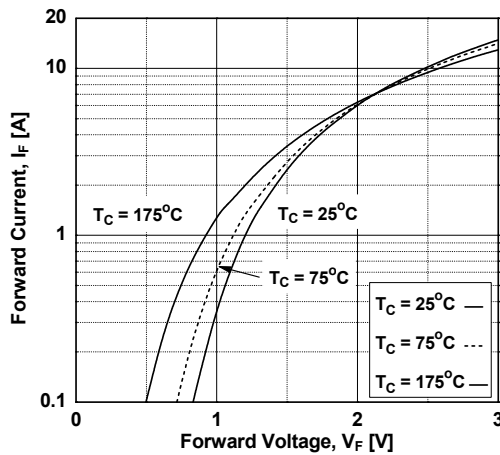
**Figure 15. Load Current Vs. Frequency**



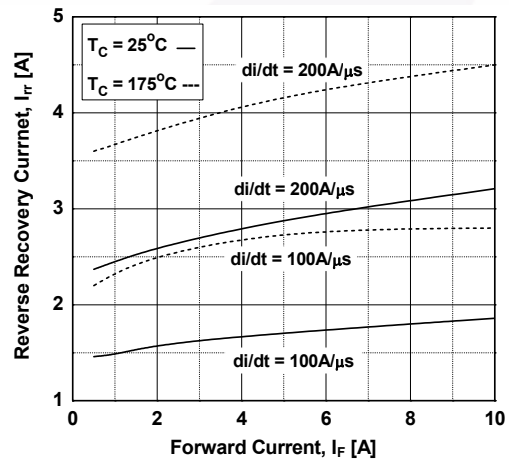
**Figure 16. SOA Characteristics**



**Figure 17. Forward Characteristics**



**Figure 18. Reverse Recovery Current**



## Typical Performance Characteristics

Figure 19. Reverse Recovery Time

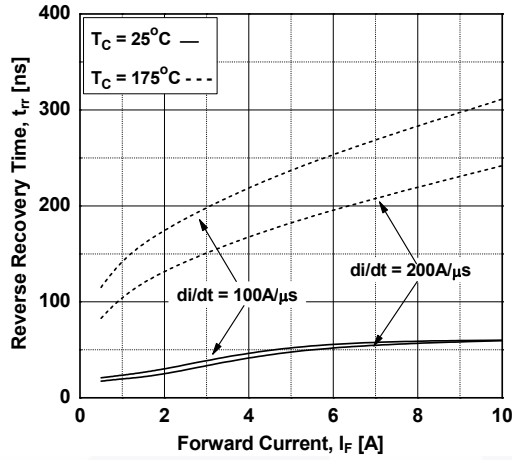


Figure 20. Stored Charge

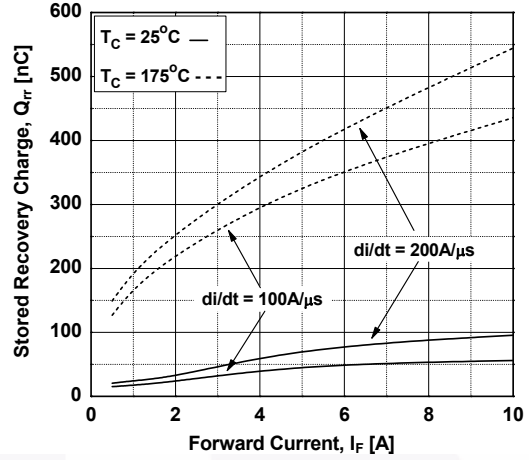


Figure 21. Transient Thermal Impedance of IGBT

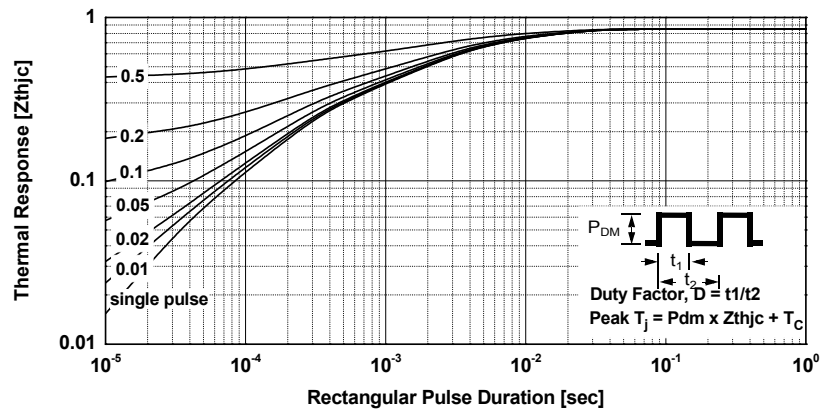
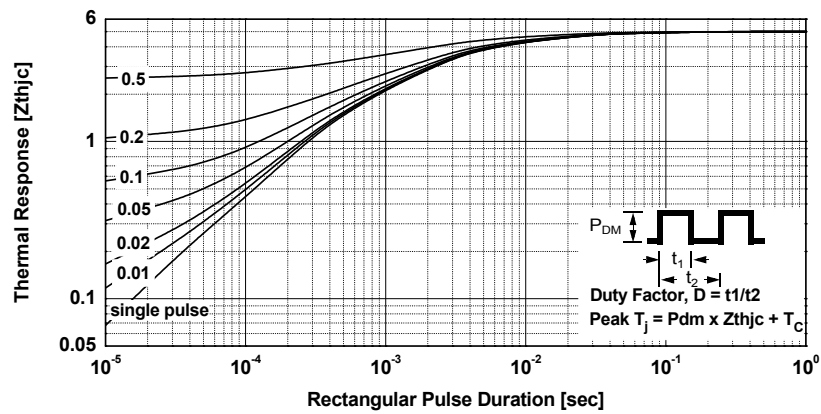
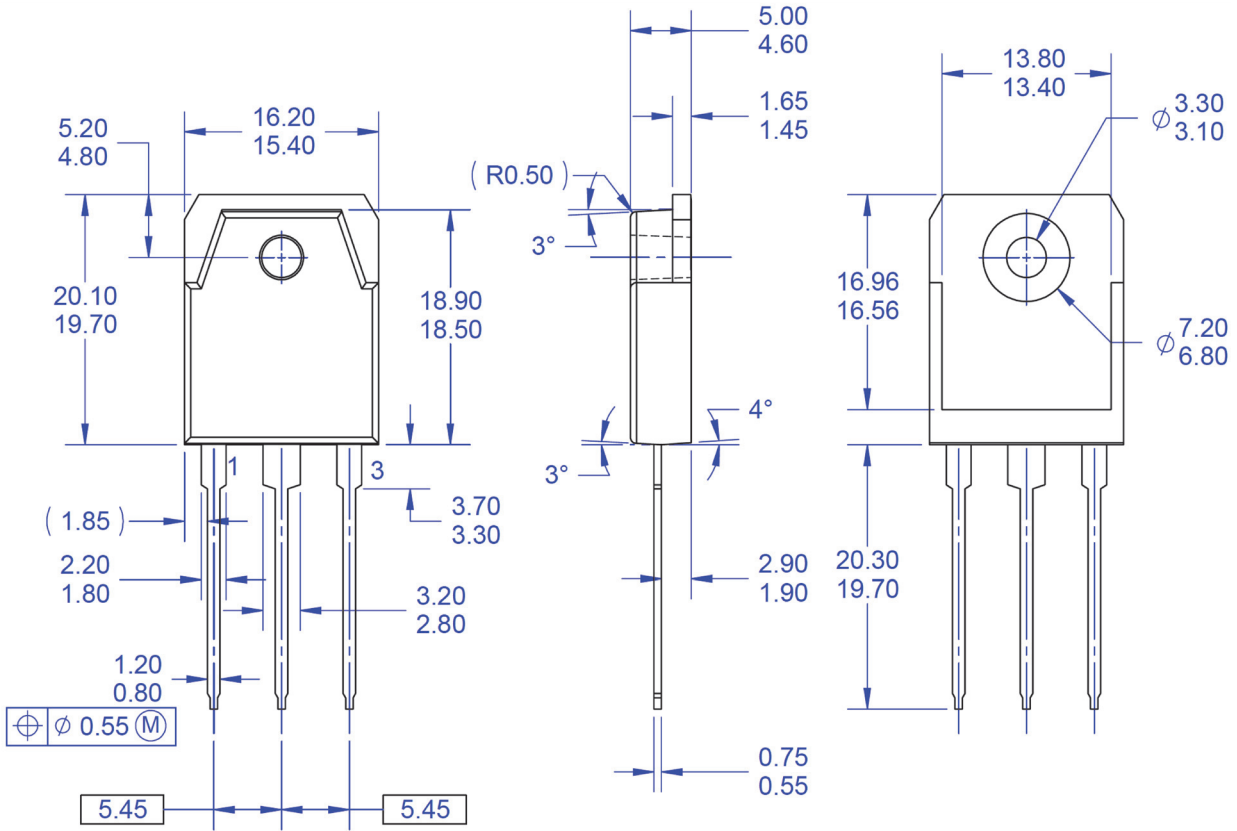


Figure 22. Transient Thermal Impedance of Diode





**Mechanical Dimensions**



NOTES: UNLESS OTHERWISE SPECIFIED

- A) THIS PACKAGE CONFORMS TO EIAJ SC-65 PACKAGING STANDARD.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DIMENSION AND TOLERANCING PER ASME14.5-2009.
- D) DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- E) DRAWING FILE NAME: TO3PN03AREV1.
- F) FAIRCHILD SEMICONDUCTOR.

**Figure 23. TO-3P 3L - 3LD, T03, PLASTIC, EIAJ SC-65**

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| Awinda®                  | Global Power ResourceSM                         |                                       | TinyBuck®        |
| AX-CAP®*                 | GreenBridge™                                    | Power Supply WebDesigner™             | TinyCalc™        |
| BitSiC™                  | Green FPS™                                      | PowerTrench®                          | TinyLogic™       |
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| CorePOWER™               | GTO™  | QFET®                                 | TinyPWM™         |
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| DEUXPEED®                | MegaBuck™                                       | ™                                     | TRUECURRENT®*    |
| Dual Cool™               | MICROCOUPLER™                                   | Saving our world, 1mW/W/kW at a time™ | μSerDes™         |
| EcoSPARK®                | MicroFET™                                       | SignalWise™                           | SerDes™          |
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| FACT®                    | MTi®  | SuperFET®                             | VoltagePlus™     |
| FACT®                    | MTx®  | SuperSOT™_3                           | XS™              |
| FAST®                    | MVN®  | SuperSOT™_6                           | Xsens™           |
| FastvCore™               | mWSaver®  | SuperSOT™_8                           | ? ?™             |
| FETBench™                | OptoHi™   | SupreMOS®                             |                  |
| FPS™                     | OPTOLOGIC®                                      | SyncFET™                              |                  |
|                          |   | Sync-Lock™                            |                  |

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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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