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Features

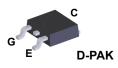
- FS Trench Technology, Positive Temperature Coefficient
- High Speed Switching
- Low Saturation Voltage: V_{CE(sat)} =2.9 V @ I_C = 5 A
- 100% of the Parts tested for $I_{IM}(1)$
- · High Input Impedance
- RoHS Compliant

Applications

- · Inrush current limitation
- Lighting
- · Home appliances

General Description

Using novel field stop IGBT technology, Fairchild's new series of field stop 3rd generation IGBTs offer the optimum performance for inrush current limitation, lighting and home appliance applications.





Absolute Maximum Ratings T_C = 25°C unless otherwise noted

Symbol	Description		FGD5T120SH	Unit
V _{CES}	Collector to Emitter Voltage		1200	V
V _{GES}	Gate to Emitter Voltage		±25	V
	Transient Gate to Emitter Voltage		±30	V
	Collector Current	@ T _C = 25 ^o C	10	A
I _C	Collector Current	@ T _C = 100 ^o C	5	А
I _{LM} (1)	Clamped Inductive Load Current	@ T _C = 25 ^o C	12.5	А
I _{CM} (2)	Pulsed Collector Current		12.5	А
P _D	Maximum Power Dissipation	@ T _C = 25°C	69	W
	Maximum Power Dissipation	@ T _C = 100°C	28	W
TJ	Operating Junction Temperature		-55 to +150	°C
T _{stg}	Storage Temperature Range		-55 to +150	°C
TL	Maximum Lead Temp. for soldering Purposes, 1/8" from case for 5 seconds		300	°C

Notes: 1. Vcc = 600 V,V_{GE} = 15 V, I_C = 12.5 A, R_G = 50 Ω . Inductive Load 2. Limited by Tjmax

November 2015

	FGD51120SH -
	- 1200 V, 5 A F
-	I, 5 A FS Irench IGBI
-	

Thermal Characteristics

Symbol	Parameter	FGD5T120SH	Unit	
$R_{ extsf{ heta}JC}$ (IGBT)	Thermal Resistance, Junction to Case, Max.	1.8	°C/W	
R_{\thetaJA}	Thermal Resistance, Junction to Ambient, Max. (3)	50	°C/W	

Notes: 3. Mounted on 1" squre PCB (FR4 or G-10 material)

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Qty per Tube
FGD5T120SH	FGD5T120SH	TO-252 A03	380 mm	16 mm	2500

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

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Off Charac	teristics					
BV _{CES}	Collector to Emitter Breakdown Voltage	V _{GE} = 0 V, I _C = 250 uA	1200	-	-	V
ΔBV_{CES} / ΔT_{J}	Temperature Coefficient of Breakdown Voltage	V _{GE} = 0 V, I _C = 250 uA	-	1.2	-	V/ºC
I _{CES}	Collector Cut-Off Current	$V_{CE} = V_{CES}, V_{GE} = 0 V$	-	-	250	μA
I _{GES}	G-E Leakage Current	V_{GE} = V_{GES} , V_{CE} = 0 V	-	-	± 400	nA
On Charac	teristics					
V _{GE(th)}	G-E Threshold Voltage	I_{C} = 5 mA, V_{CE} = V_{GE}	2.5	3.5	4.5	V
		I _C = 5 A, V _{GE} = 15 V	-	2.9	3.6	V
V _{CE(sat)}	Collector to Emitter Saturation Voltage	$I_{C} = 5 \text{ A}, V_{GE} = 15 \text{ V},$ $T_{C} = 150^{\circ}\text{C}$	-	4.5	-	V
Dynamic C	haracteristics					
C _{ies}	Input Capacitance		-	209	-	pF
C _{oes}	Output Capacitance	V _{CE} = 30 V, V _{GE} = 0 V, f = 1 MHz	-	11	-	pF
C _{res}	Reverse Transfer Capacitance		-	2	-	pF
•	Characteristics			1	1	
T _{d(on)}	Turn-On Delay Time	-	-	4.8	-	ns
T _r	Rise Time	-	-	20.8	-	ns
T _{d(off)}	Turn-Off Delay Time	V _{CC} = 600 V, I _C = 5 A,	-	24.8	-	ns
T _f	Fall Time	$R_G = 30 \Omega$, $V_{GE} = 15 V$, Inductive Load, $T_C = 25^{\circ}C$	-	104	-	ns
E _{on}	Turn-On Switching Loss		-	247	-	uJ
E _{off}	Turn-Off Switching Loss		-	94	-	uJ
E _{ts}	Total Switching Loss		-	341	-	uJ
T _{d(on)}	Turn-On Delay Time		-	4.8	-	ns
T _r	Rise Time		-	40	-	ns
		V _{CC} = 600 V, I _C = 5 A,	1	0 - 0	1	
T _{d(off)}	Turn-Off Delay Time		-	25.6	-	ns
T _f	Turn-Off Delay Time Fall Time	R _G = 30 Ω, V _{GE} = 15 V,	-	25.6 134	-	ns
T _f					-	-
	Fall Time	R _G = 30 Ω, V _{GE} = 15 V,	-	134	- - - -	ns
T _f E _{on}	Fall Time Turn-On Switching Loss	R _G = 30 Ω, V _{GE} = 15 V,	-	134 393	- - - -	ns uJ
T _f E _{on} E _{off}	Fall Time Turn-On Switching Loss Turn-Off Switching Loss	$R_G = 30 \Omega$, $V_{GE} = 15 V$, Inductive Load, $T_C = 150^{\circ}C$	-	134 393 114	- - - -	ns uJ uJ
T _f E _{on} E _{off} E _{ts}	Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss	R _G = 30 Ω, V _{GE} = 15 V,	-	134 393 114 507	- - - -	ns uJ uJ uJ

Typical Performance Characteristics



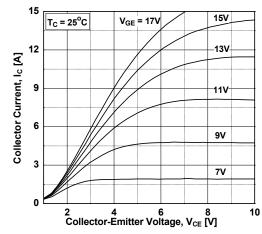


Figure 3. Typical Saturation Voltage Characteritics

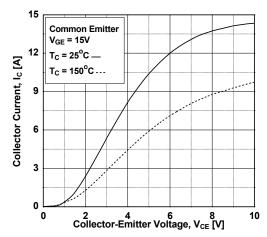


Figure 5. Saturation Voltage vs. Case Temperature at Variant Current Level

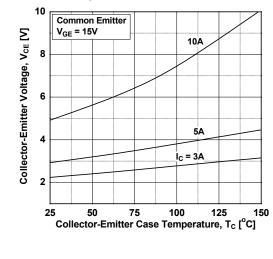


Figure 2. Typical Output Characteristics

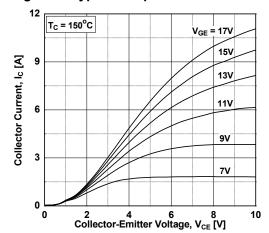


Figure 4. Transfer Characteristics

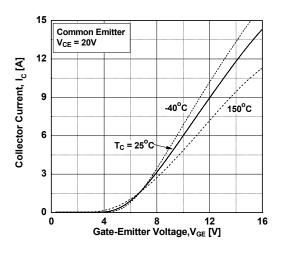
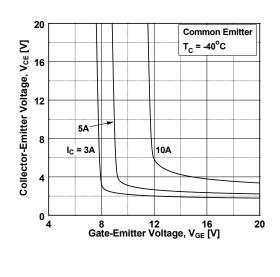


Figure 6. Saturation Voltage vs. VGE



Typical Performance Characteristics

Figure 7. Saturation Voltage vs. VGE

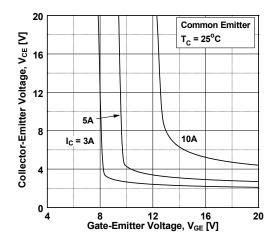


Figure 9. Capacitance Characteristics

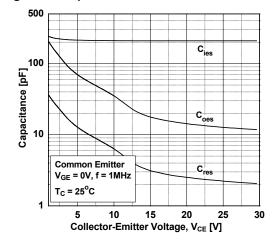


Figure 11. SOA Characteristics

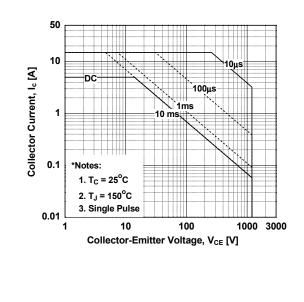
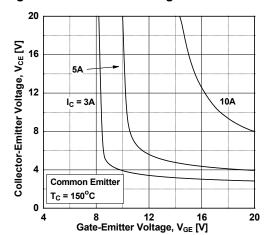


Figure 8. Saturation Voltage vs. VGE





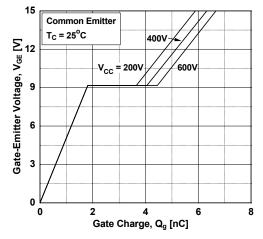
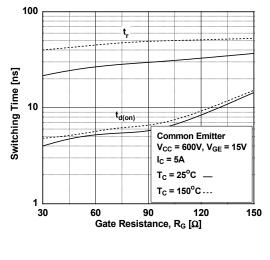


Figure 12. Turn-on Characteristics vs. Gate Resistance



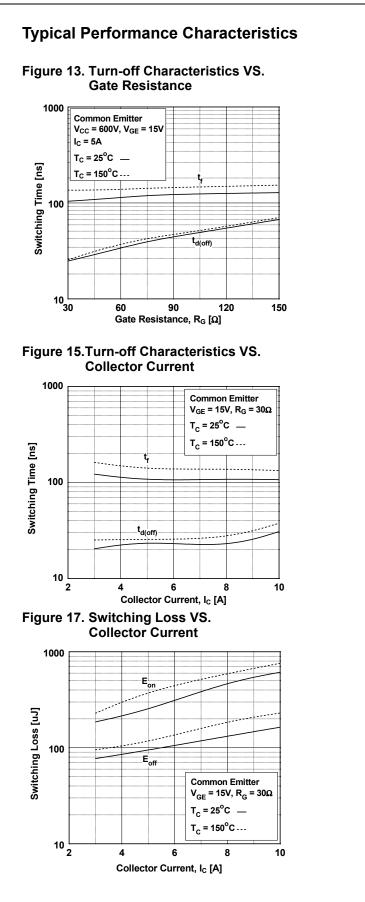


Figure 14.Turn-on Characteristics VS. Collector Current

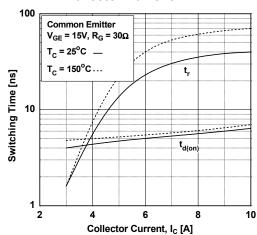
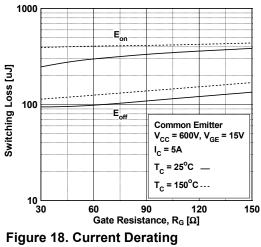
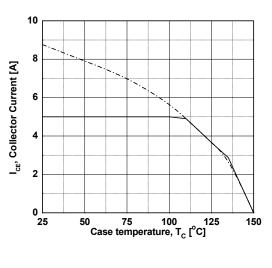
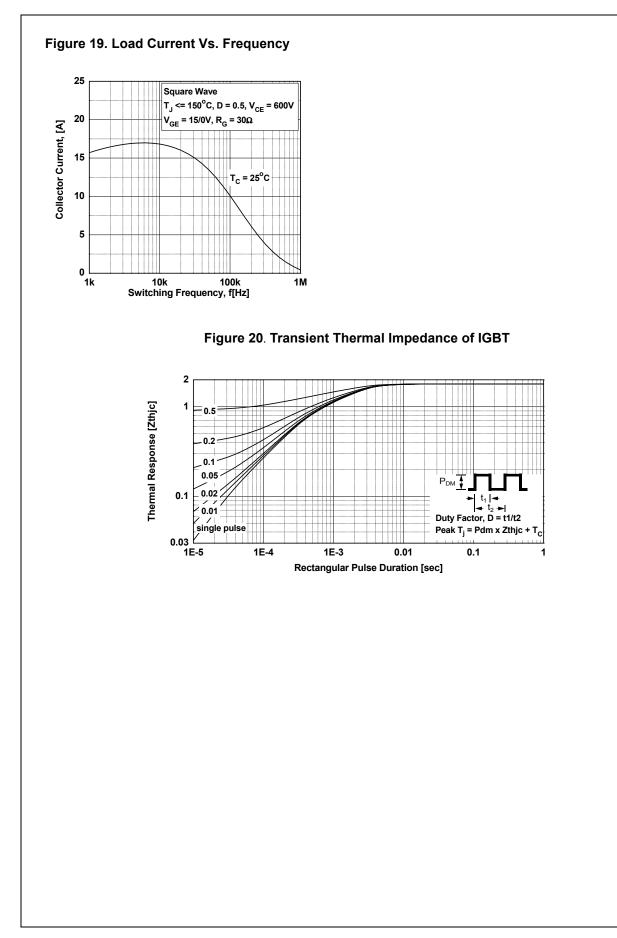
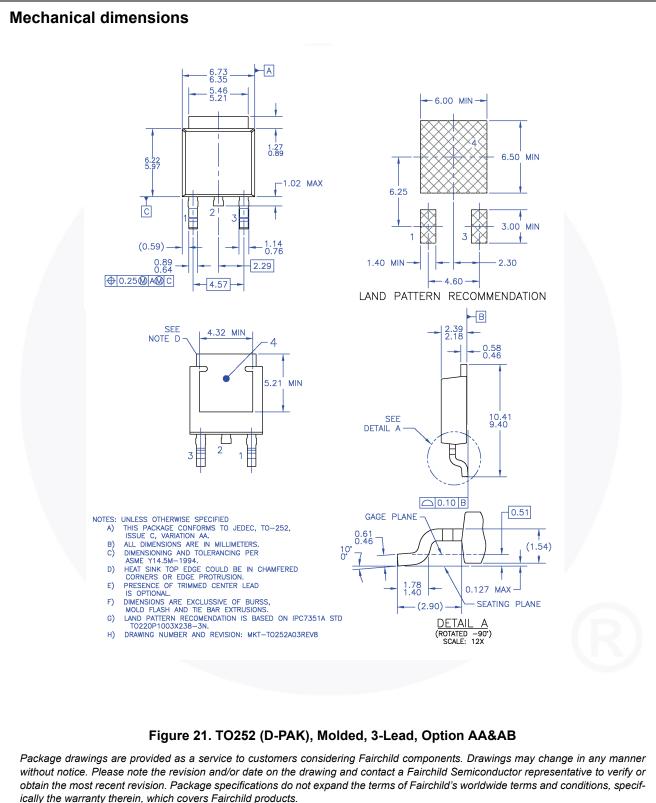


Figure 16.Switching Loss VS. Gate Resistance









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FGD5T120SH — 1200 V, 5 A FS Trench IGBT

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