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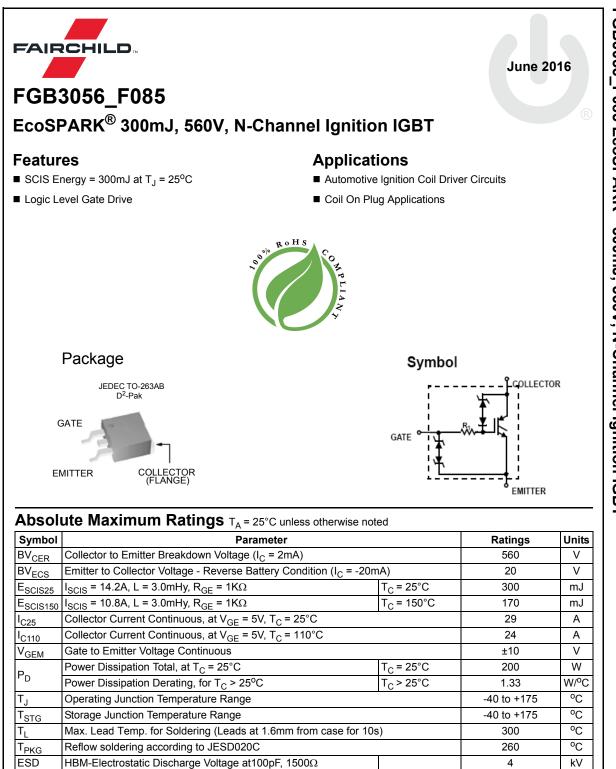


ON Semiconductor®

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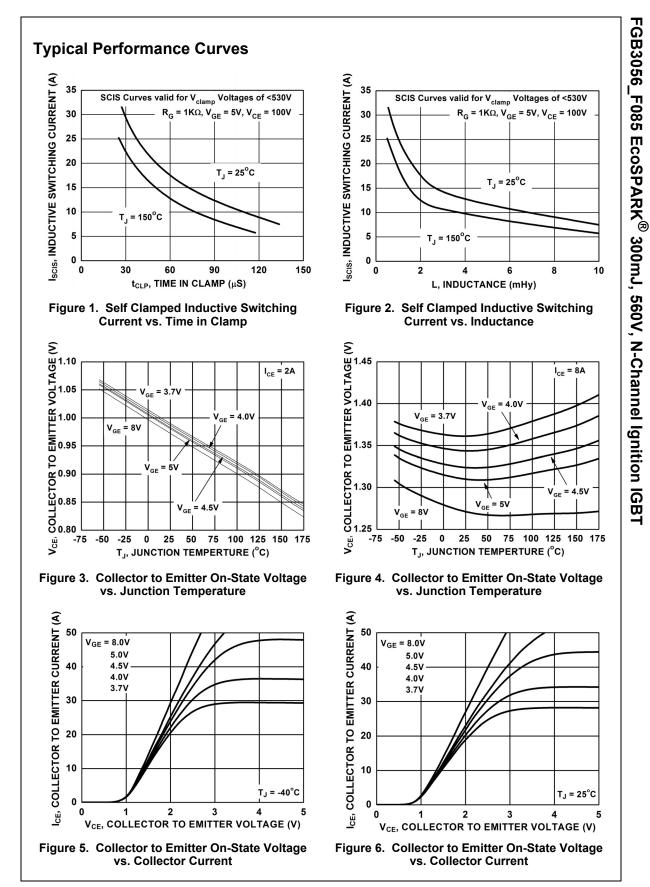
Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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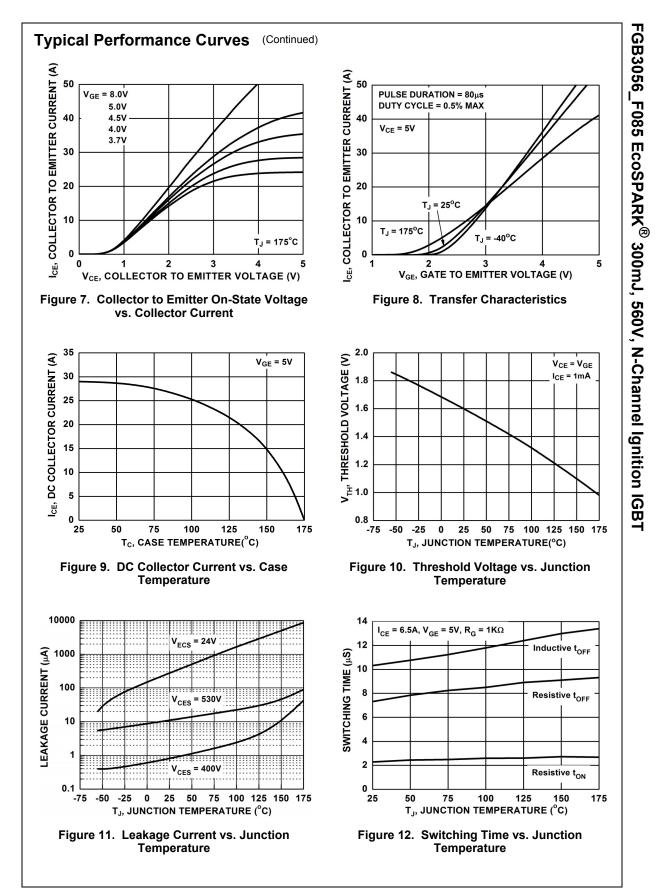


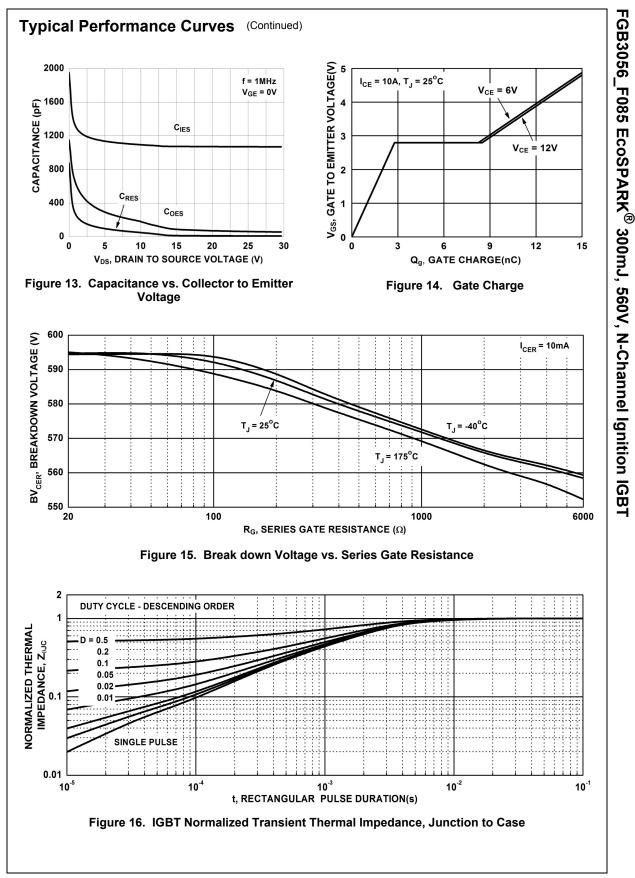


$R_{ ext{ heta}JC}$	Thermal Resistance Junction to Case							0.75			°C/W
Electr	ical Ch	aracteristics of	f the	IGBT	$T_A = 25^{\circ}C$ unles	s oth	erwise noted	ł			
Symbol	mbol Parameter				Test Conditions				Тур	Max	Units
		cteristics						1			
				$V_{\rm eff} = 0V_{\rm eff}$	L = 2mΔ				r		r
BV _{CER}	Collector to Emitter Breakdown Voltage		oltage	$V_{GE} = 0V, I_{CE} = 2mA,$ $R_{GE} = 1K\Omega,$ $T_{J} = -40 \text{ to } 150^{\circ}\text{C}$			530	560	600	V	
BV _{CES}	Collector to Emitter Breakdown Voltage			$V_{GE} = 0V, I_{CE} = 10mA,$ $R_{GE} = 0\Omega,$ $T_{J} = -40 \text{ to } 150^{\circ}\text{C}$				-	595	-	v
BV _{ECS}	Emitter to Collector Breakdown Voltage			V _{GE} = 0V, I _{CE} = -75mA, T _J = 25°C				20	26	-	v
BV_{GES}	Gate to Emitter Breakdown Voltage			I _{GES} = ±5mA				±12	±14	-	V
I _{CER}	Collector to Emitter Leakage Cu		ent	V _{CE} = 250	0V, R _{GE} = 1KΩ		25°C 150°C	-	-	40 1	μA mA
				V _{EC} = 20\	1	0	25°C	-	-	1	mA
I _{ECS}	Emitter to	Collector Leakage Curre	ent	• EC - 201		-	150°C	-	-	40	mA
R ₁	Series Gate Resistance			[1] ioo o				-	100	-	Ω
On Sta	te Chara	cteristics							•		•
V _{CE(SAT)}	Collector to Emitter Saturation Voltage		Itage	$V_{GE} = 5V, I_{CE} = 2A$ $T_{J} = 25^{\circ}C$			= 25°C	-	1.0	1.1	V
	Collector to Emitter Saturation Voltage							-	1.3	1.55	V
Dynam	ic Chara	cteristics									
Q _{G(ON)}	Gate Charge		,	V _{GE} = 5V, V _{CE} = 12V, I _{CE} = 10A			-	15.6	20	nC	
V _{GE(TH)}			$I_{CE} = 1mA, V_{CE} = V_{GE}, \qquad \frac{T_J = 25^{\circ}C}{T_J = 150^{\circ}C}$			1.3 -	1.6 1.1	2.2	V		
V _{GEP}	Gate to Emitter Plateau Voltage			V _{CE} = 12V, I _{CE} = 10A			-	2.8	-	V	
Switch	ing Char	acteristics									
t _{d(ON)R}	Current Turn-On Delay Time-Resistive		istive				-	0.8	1.3	μS	
t _{rR}	Current Rise Time-Resistive		$V_{GE} = 5V, R_G = 1K\Omega$			-	1.48	2.4	μS		
t _{d(OFF)L}	Current Turn-Off Delay Time-Inductive		$V_{CE} = 300V, L = 1mH,$			-	5.1	8.2	μS		
t _{fL}	Current Fall Time-Inductive			$V_{GE} = 5V, R_G = 1K\Omega$			-	1.1	1.8	μS	
	ing Info	ormation									
Order	· · · · · · · · · · · · · · · · · · ·		Pac	ckage Reel Size Tape						ity	
	Marking			263AB 330mm			24mm		800un		. 14



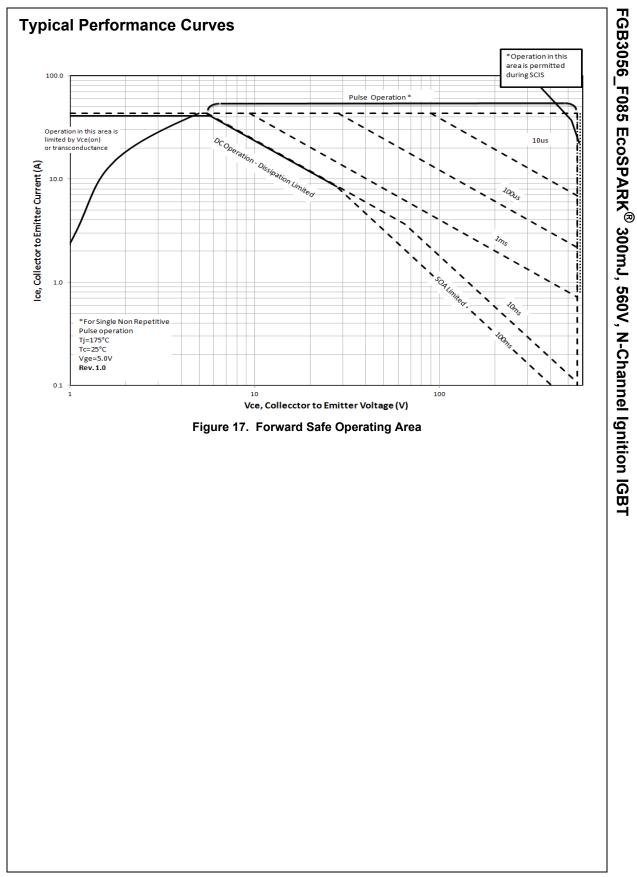
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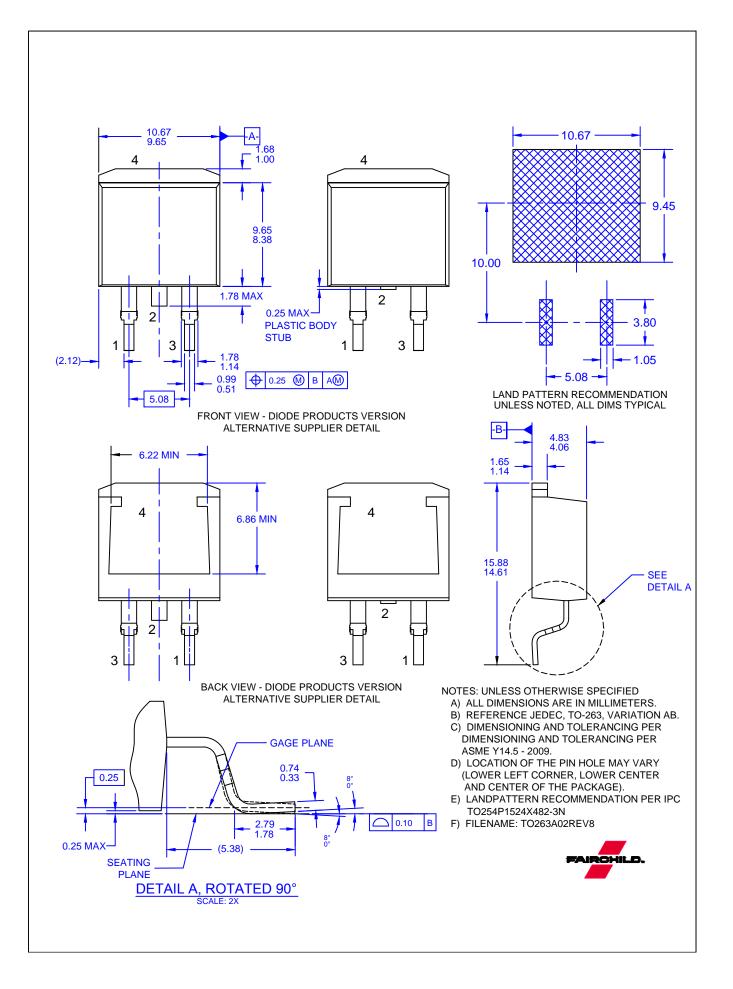




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