

Is Now Part of

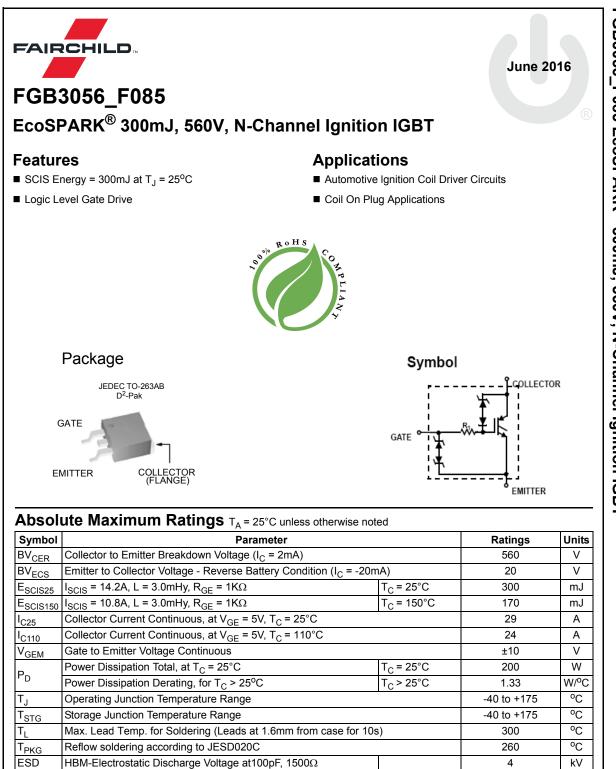


ON Semiconductor®

To learn more about ON Semiconductor, please visit our website at <u>www.onsemi.com</u>

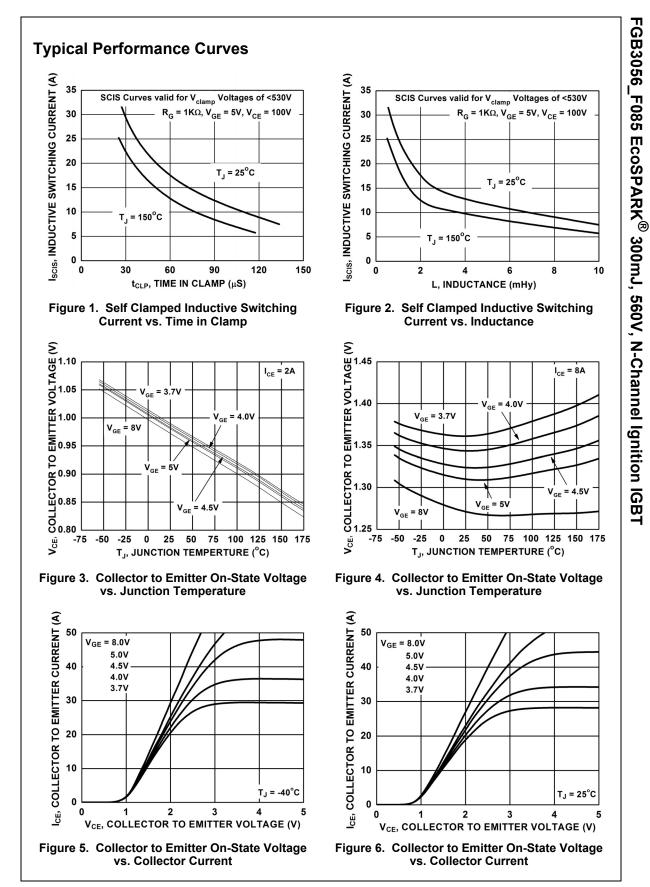
Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes 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.

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or unavteries, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out or i, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor and is officers, employees, uniotificated use, even if such claim any manner.

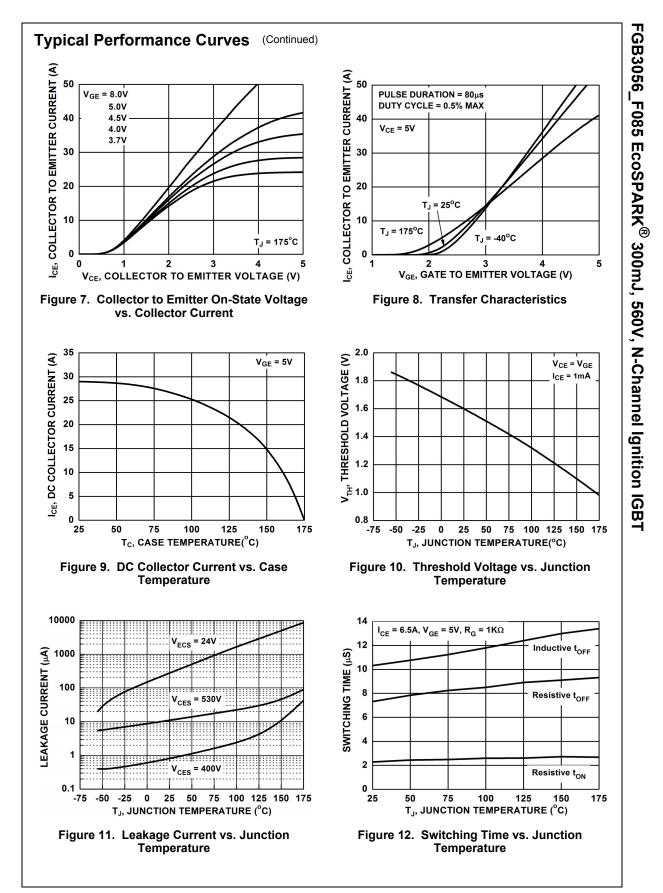


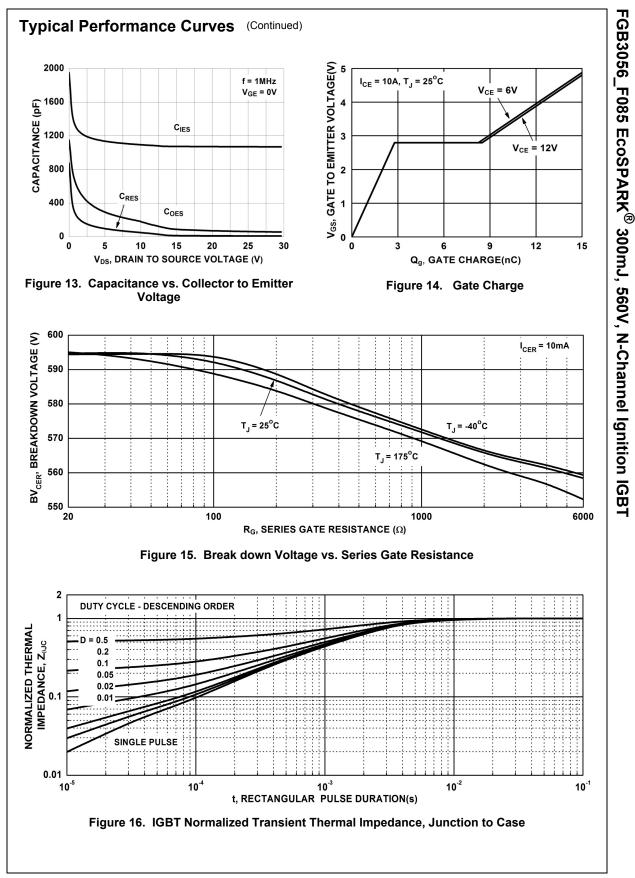


$R_{ ext{ heta}JC}$	Thermal Resistance Junction to Case							0.75			°C/W
Electr	ical Ch	aracteristics of	f the	IGBT	$T_A = 25^{\circ}C$ unles	s oth	erwise noted	ł			
Symbol	mbol Parameter				Test Conditions				Тур	Max	Units
		cteristics						1			
				$V_{\rm eff} = 0V_{\rm eff}$	L = 2mΔ				r		r
BV _{CER}	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



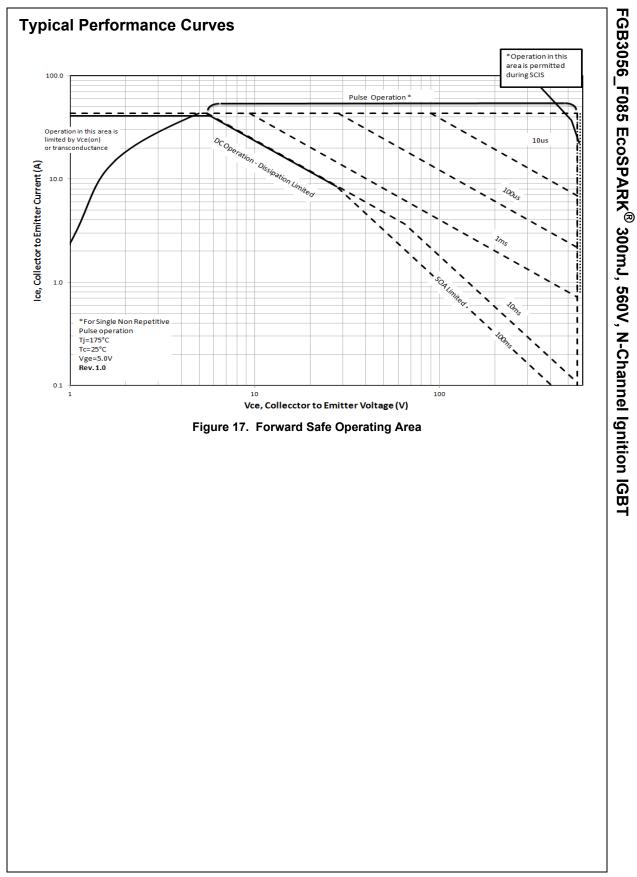
@2016 Fairchild Semiconductor Corporation FGB3056_F085 Rev. 1.0

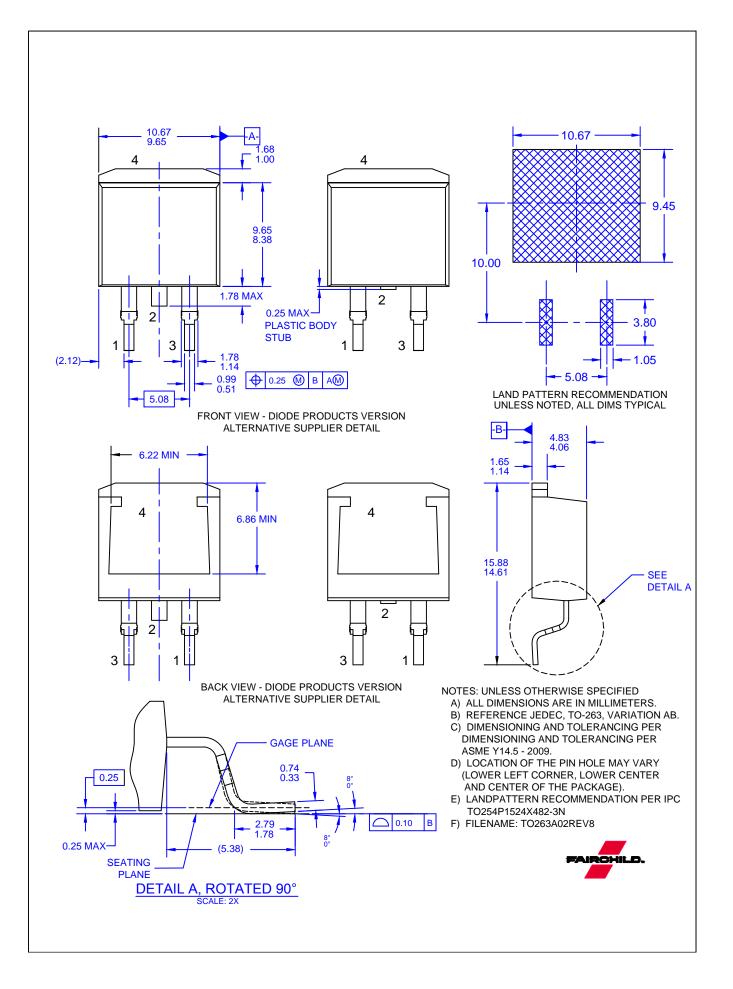




@2016 Fairchild Semiconductor Corporation FGB3056_F085 Rev. 1.0

www.fairchildsemi.com





ON Semiconductor and are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at <u>www.onsemi.com/site/pdf/Patent-Marking.pdf</u>. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor has against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death ass

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:

Literature Distribution Center for ON Semiconductor 19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA Phone: 303-675-2175 or 800-344-3860 Toll Free USA/Canada Fax: 303-675-2176 or 800-344-3867 Toll Free USA/Canada Email: orderlit@onsemi.com N. American Technical Support: 800–282–9855 Toll Free USA/Canada Europe, Middle East and Africa Technical Support: Phone: 421 33 790 2910

Japan Customer Focus Center Phone: 81-3-5817-1050 ON Semiconductor Website: www.onsemi.com

Order Literature: http://www.onsemi.com/orderlit

For additional information, please contact your local Sales Representative

© Semiconductor Components Industries, LLC

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ON Semiconductor: FGB3056_F085



Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию.

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научноисследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург, Промышленная ул, дом № 19, литера Н, помещение 100-Н Офис 331