



**Is Now Part of**



**ON Semiconductor®**

**To learn more about ON Semiconductor, please visit our website at**  
**[www.onsemi.com](http://www.onsemi.com)**

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](http://www.onsemi.com). Please email any questions regarding the system integration to [Fairchild\\_questions@onsemi.com](mailto: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](http://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 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 nor the 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 products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, 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 is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

# ISL9V3040D3S / ISL9V3040S3S / ISL9V3040P3 / ISL9V3040S3

## EcoSPARK® 300mJ, 400V, N-Channel Ignition IGBT

### General Description

The ISL9V3040D3S, ISL9V3040S3S, ISL9V3040P3, and ISL9V3040S3 are the next generation ignition IGBTs that offer outstanding SCIS capability in the space saving D-Pak (TO-252), as well as the industry standard D<sup>2</sup>-Pak (TO-263), and TO-262 and TO-220 plastic packages. This device is intended for use in automotive ignition circuits, specifically as a coil driver. Internal diodes provide voltage clamping without the need for external components.

EcoSPARK® devices can be custom made to specific clamp voltages. Contact your nearest Fairchild sales office for more information.

Formerly Developmental Type 49362

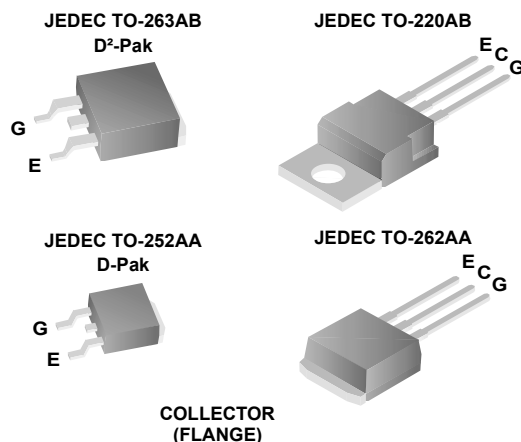
### Applications

- Automotive Ignition Coil Driver Circuits
- Coil- On Plug Applications

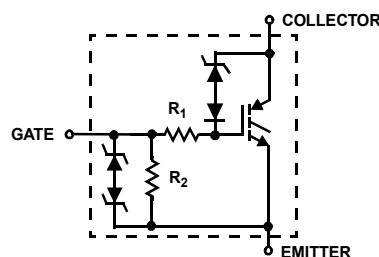
### Features

- Space saving D-Pak package availability
- SCIS Energy = 300mJ at  $T_J = 25^\circ\text{C}$
- Logic Level Gate Drive

### Package



### Symbol



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

Symbol	Parameter	Ratings	Units
$BV_{CER}$	Collector to Emitter Breakdown Voltage ( $I_C = 1 \text{ mA}$ )	430	V
$BV_{ECS}$	Emitter to Collector Voltage - Reverse Battery Condition ( $I_C = 10 \text{ mA}$ )	24	V
$E_{SCIS25}$	At Starting $T_J = 25^\circ\text{C}$ , $I_{SCIS} = 14.2\text{A}$ , $L = 3.0 \text{ mHy}$	300	mJ
$E_{SCIS150}$	At Starting $T_J = 150^\circ\text{C}$ , $I_{SCIS} = 10.6\text{A}$ , $L = 3.0 \text{ mHy}$	170	mJ
$I_{C25}$	Collector Current Continuous, At $T_C = 25^\circ\text{C}$ , See Fig 9	21	A
$I_{C110}$	Collector Current Continuous, At $T_C = 110^\circ\text{C}$ , See Fig 9	17	A
$V_{GEM}$	Gate to Emitter Voltage Continuous	$\pm 10$	V
$P_D$	Power Dissipation Total $T_C = 25^\circ\text{C}$	150	W
	Power Dissipation Derating $T_C > 25^\circ\text{C}$	1.0	W/ $^\circ\text{C}$
$T_J$	Operating Junction Temperature Range	-40 to 175	$^\circ\text{C}$
$T_{STG}$	Storage Junction Temperature Range	-40 to 175	$^\circ\text{C}$
$T_L$	Max Lead Temp for Soldering (Leads at 1.6mm from Case for 10s)	300	$^\circ\text{C}$
$T_{pkg}$	Max Lead Temp for Soldering (Package Body for 10s)	260	$^\circ\text{C}$
ESD	Electrostatic Discharge Voltage at 100pF, 1500Ω	4	kV

ISL9V3040D3S / ISL9V3040S3S / ISL9V3040P3 / ISL9V3040S3

**Package Marking and Ordering Information**

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
V3040D	ISL9V3040D3ST	TO-252AA	330mm	16mm	2500
V3040S	ISL9V3040S3ST	TO-263AB	330mm	24mm	800
V3040P	ISL9V3040P3	TO-220AB	Tube	N/A	50
V3040S	ISL9V3040S3	TO-262AA	Tube	N/A	50
V3040D	ISL9V3040D3S	TO-252AA	Tube	N/A	75
V3040S	ISL9V3040S3S	TO-263AB	Tube	N/A	50

**Electrical Characteristics**  $T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
--------	-----------	-----------------	-----	-----	-----	-------

**Off State Characteristics**

$BV_{\text{CER}}$	Collector to Emitter Breakdown Voltage	$I_C = 2\text{mA}$ , $V_{\text{GE}} = 0$ , $R_G = 1\text{K}\Omega$ , See Fig. 15 $T_J = -40$ to $150^\circ\text{C}$	370	400	430	V
$BV_{\text{CES}}$	Collector to Emitter Breakdown Voltage	$I_C = 10\text{mA}$ , $V_{\text{GE}} = 0$ , $R_G = 0$ , See Fig. 15 $T_J = -40$ to $150^\circ\text{C}$	390	420	450	V
$BV_{\text{ECS}}$	Emitter to Collector Breakdown Voltage	$I_C = -75\text{mA}$ , $V_{\text{GE}} = 0\text{V}$ , $T_C = 25^\circ\text{C}$	30	-	-	V
$BV_{\text{GES}}$	Gate to Emitter Breakdown Voltage	$I_{\text{GES}} = \pm 2\text{mA}$	$\pm 12$	$\pm 14$	-	V
$I_{\text{CER}}$	Collector to Emitter Leakage Current	$V_{\text{CER}} = 250\text{V}$ , $R_G = 1\text{K}\Omega$ , See Fig. 11	$T_C = 25^\circ\text{C}$	-	-	25 $\mu\text{A}$
			$T_C = 150^\circ\text{C}$	-	-	1 mA
$I_{\text{ECS}}$	Emitter to Collector Leakage Current	$V_{\text{EC}} = 24\text{V}$ , See Fig. 11	$T_C = 25^\circ\text{C}$	-	-	1 mA
			$T_C = 150^\circ\text{C}$	-	-	40 mA
$R_1$	Series Gate Resistance		-	70	-	$\Omega$
$R_2$	Gate to Emitter Resistance		10K	-	26K	$\Omega$

**On State Characteristics**

$V_{\text{CE(SAT)}}$	Collector to Emitter Saturation Voltage	$I_C = 6\text{A}$ , $V_{\text{GE}} = 4\text{V}$	$T_C = 25^\circ\text{C}$ , See Fig. 3	-	1.25	1.60	V
$V_{\text{CE(SAT)}}$	Collector to Emitter Saturation Voltage	$I_C = 10\text{A}$ , $V_{\text{GE}} = 4.5\text{V}$	$T_C = 150^\circ\text{C}$ , See Fig. 4	-	1.58	1.80	V
$V_{\text{CE(SAT)}}$	Collector to Emitter Saturation Voltage	$I_C = 15\text{A}$ , $V_{\text{GE}} = 4.5\text{V}$	$T_C = 150^\circ\text{C}$	-	1.90	2.20	V

**Dynamic Characteristics**

Q <sub>G(ON)</sub>	Gate Charge	I <sub>C</sub> = 10A, V <sub>CE</sub> = 12V, V <sub>GE</sub> = 5V, See Fig. 14		-	17	-	nC
V <sub>GE(TH)</sub>	Gate to Emitter Threshold Voltage	I <sub>C</sub> = 1.0mA, V <sub>CE</sub> = V <sub>GE</sub> , See Fig. 10	T <sub>C</sub> = 25°C	1.3	-	2.2	V
			T <sub>C</sub> = 150°C	0.75	-	1.8	V
V <sub>GEP</sub>	Gate to Emitter Plateau Voltage	I <sub>C</sub> = 10A, V <sub>CE</sub> = 12V		-	3.0	-	V

**Switching Characteristics**

$t_{\text{d(ON)R}}$	Current Turn-On Delay Time-Resistive	$V_{\text{CE}} = 14\text{V}$ , $R_L = 1\Omega$ , $V_{\text{GE}} = 5\text{V}$ , $R_G = 1\text{K}\Omega$ , $T_J = 25^\circ\text{C}$ , See Fig. 12	-	0.7	4	$\mu\text{s}$
$t_{\text{rR}}$	Current Rise Time-Resistive		-	2.1	7	$\mu\text{s}$
$t_{\text{d(OFF)L}}$	Current Turn-Off Delay Time-Inductive	$V_{\text{CE}} = 300\text{V}$ , $L = 500\mu\text{H}$ , $V_{\text{GE}} = 5\text{V}$ , $R_G = 1\text{K}\Omega$ , $T_J = 25^\circ\text{C}$ , See Fig. 12	-	4.8	15	$\mu\text{s}$
$t_{\text{fL}}$	Current Fall Time-Inductive		-	2.8	15	$\mu\text{s}$
SCIS	Self Clamped Inductive Switching	$T_J = 25^\circ\text{C}$ , $L = 3.0\text{ mHy}$ , $R_G = 1\text{K}\Omega$ , $V_{\text{GE}} = 5\text{V}$ , See Fig. 1 & 2	-	-	300	mJ

**Thermal Characteristics**

$R_{\theta\text{JC}}$	Thermal Resistance Junction-Case	All packages	-	-	1.0	$^\circ\text{C/W}$
-----------------------	----------------------------------	--------------	---	---	-----	--------------------

## Typical Performance Curves

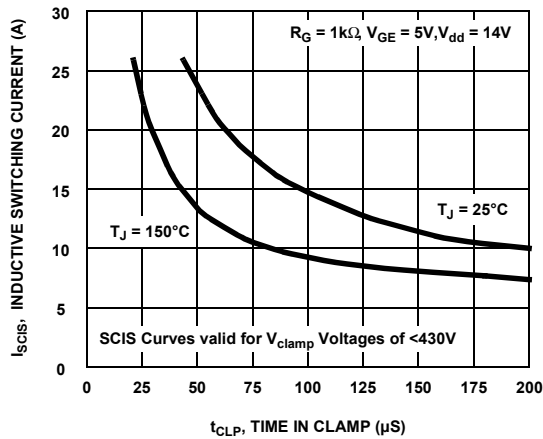


Figure 1. Self Clamped Inductive Switching Current vs Time in Clamp

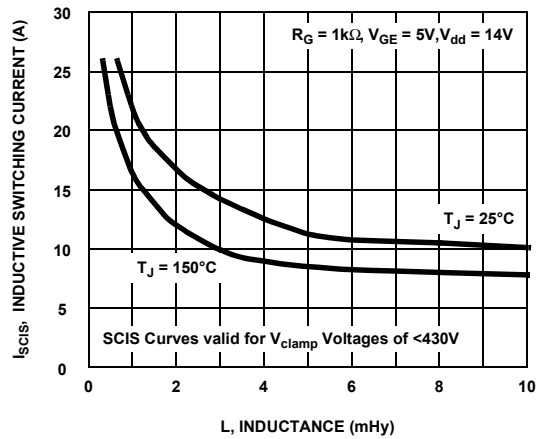


Figure 2. Self Clamped Inductive Switching Current vs Inductance

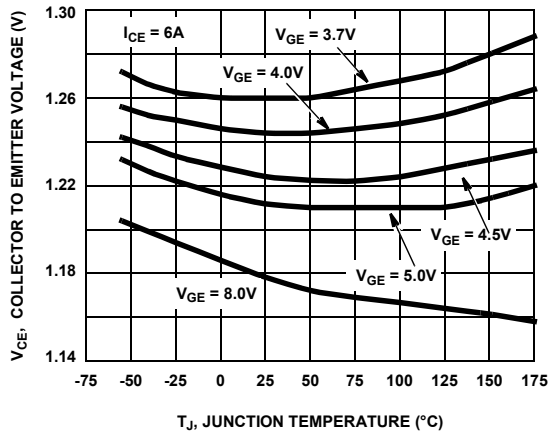


Figure 3. Collector to Emitter On-State Voltage vs Junction Temperature

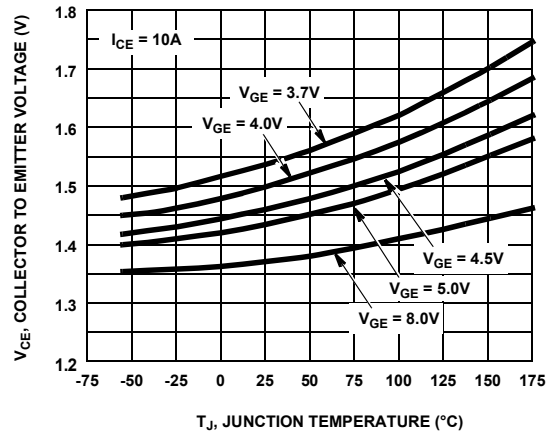


Figure 4. Collector to Emitter On-State Voltage vs Junction Temperature

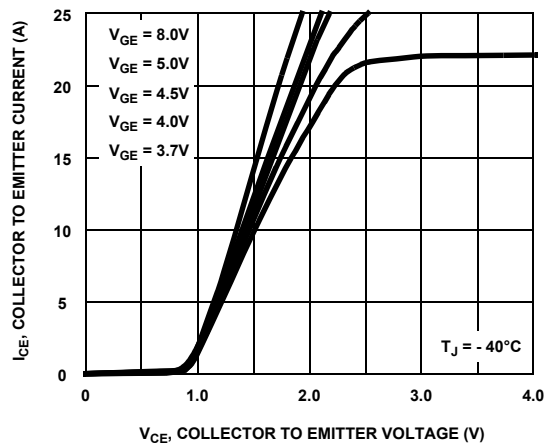


Figure 5. Collector to Emitter On-State Voltage vs Collector Current

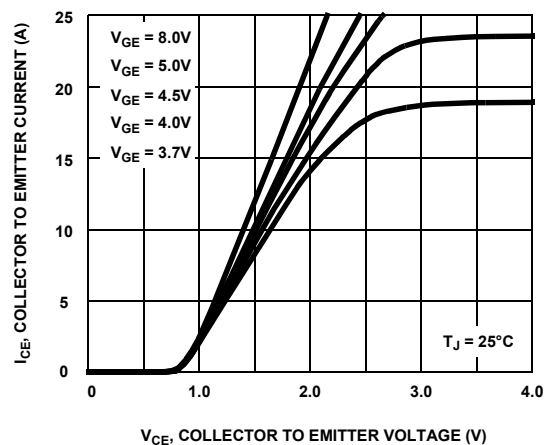


Figure 6. Collector to Emitter On-State Voltage vs Collector Current

## Typical Performance Curves (Continued)

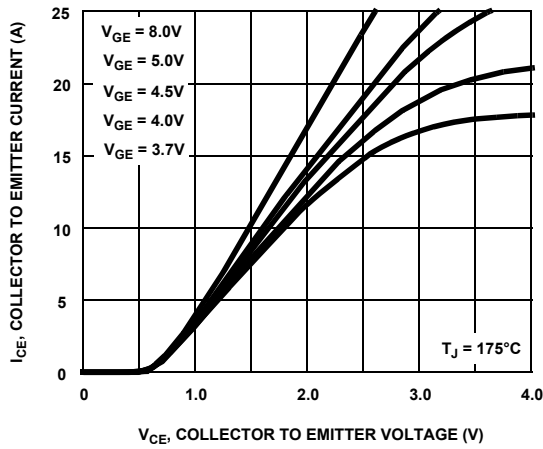


Figure 7. Collector to Emitter On-State Voltage vs Collector Current

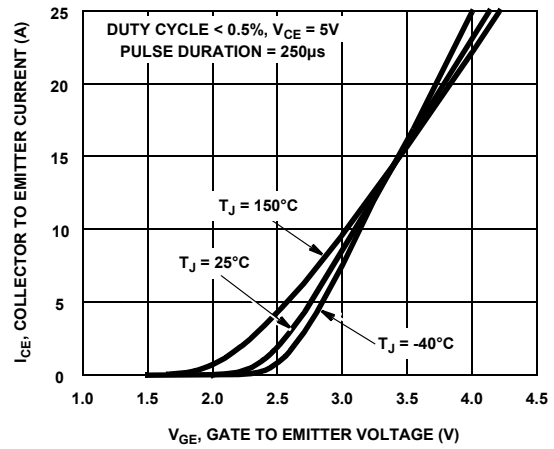


Figure 8. Transfer Characteristics

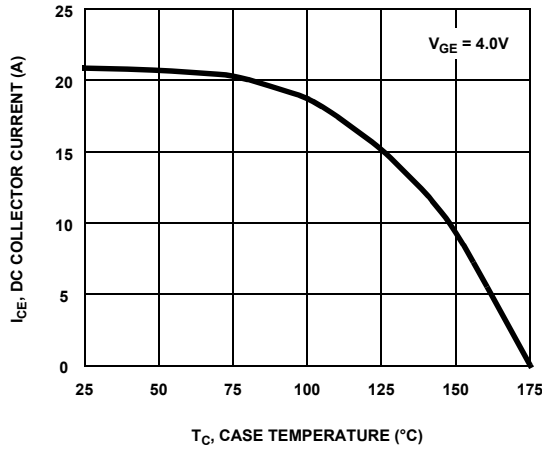


Figure 9. DC Collector Current vs Case Temperature

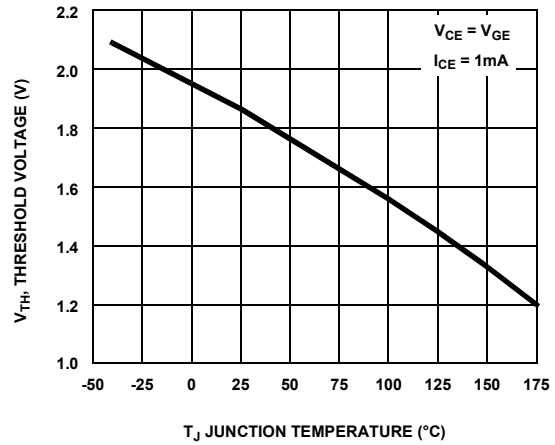


Figure 10. Threshold Voltage vs Junction Temperature

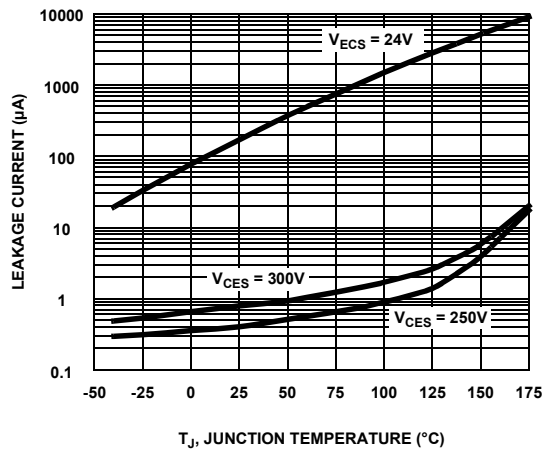


Figure 11. Leakage Current vs Junction Temperature

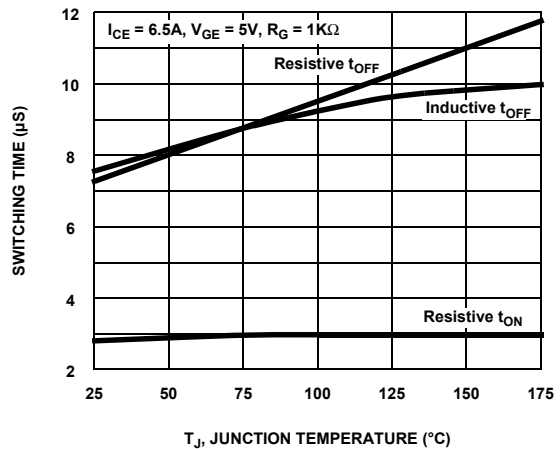


Figure 12. Switching Time vs Junction Temperature

## Typical Performance Curves (Continued)

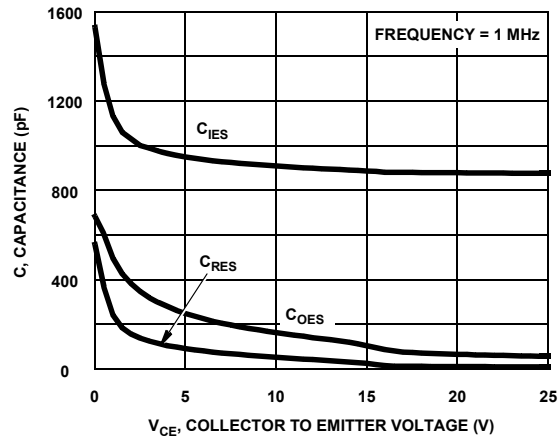


Figure 13. Capacitance vs Collector to Emitter Voltage

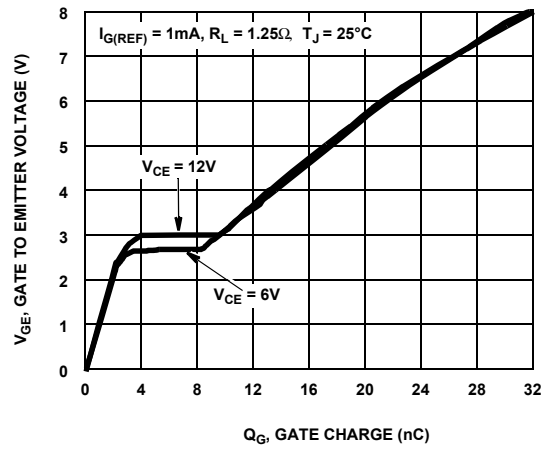


Figure 14. Gate Charge

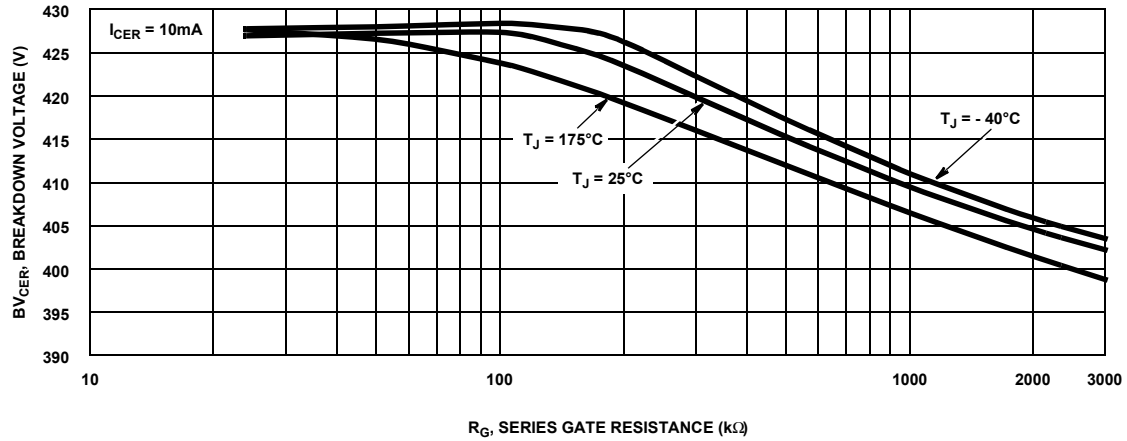


Figure 15. Breakdown Voltage vs Series Gate Resistance

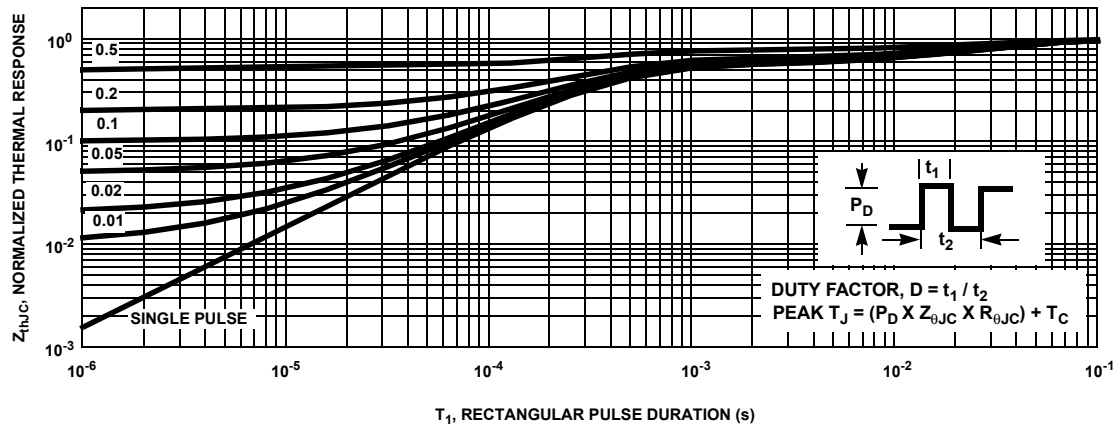


Figure 16. IGBT Normalized Transient Thermal Impedance, Junction to Case

## Test Circuit and Waveforms

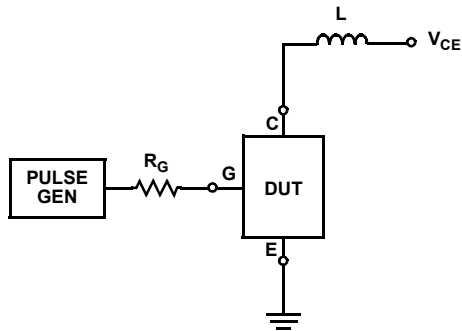


Figure 17. Inductive Switching Test Circuit

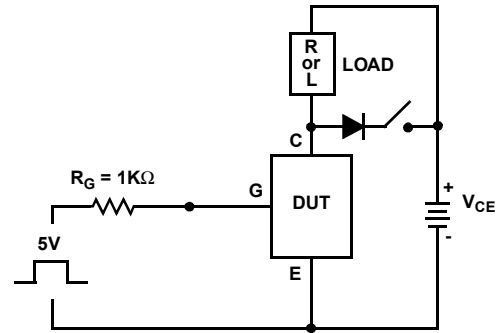


Figure 18.  $t_{ON}$  and  $t_{OFF}$  Switching Test Circuit

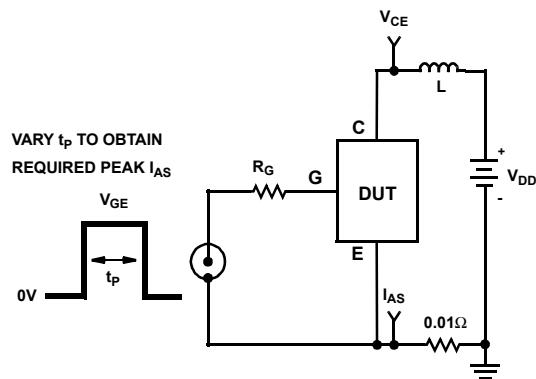


Figure 19. Energy Test Circuit

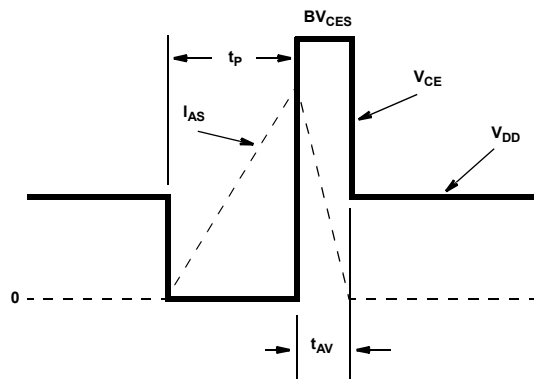


Figure 20. Energy Waveforms

## SPICE Thermal Model

REV 7 March 2002

ISL9V3040D3S / ISL9V3040S3S / ISL9V3040P3 /  
ISL9V3040S3

CTHERM1 th 6 2.1e -3  
CTHERM2 6 5 1.4e -1  
CTHERM3 5 4 7.3e -3  
CTHERM4 4 3 2.1e -1  
CTHERM5 3 2 1.1e -1  
CTHERM6 2 tl 6.2e +6

RTHERM1 th 6 1.2e -1  
RTHERM2 6 5 1.9e -1  
RTHERM3 5 4 2.2e -1  
RTHERM4 4 3 6.0e -2  
RTHERM5 3 2 5.8e -2  
RTHERM6 2 tl 1.6e -3

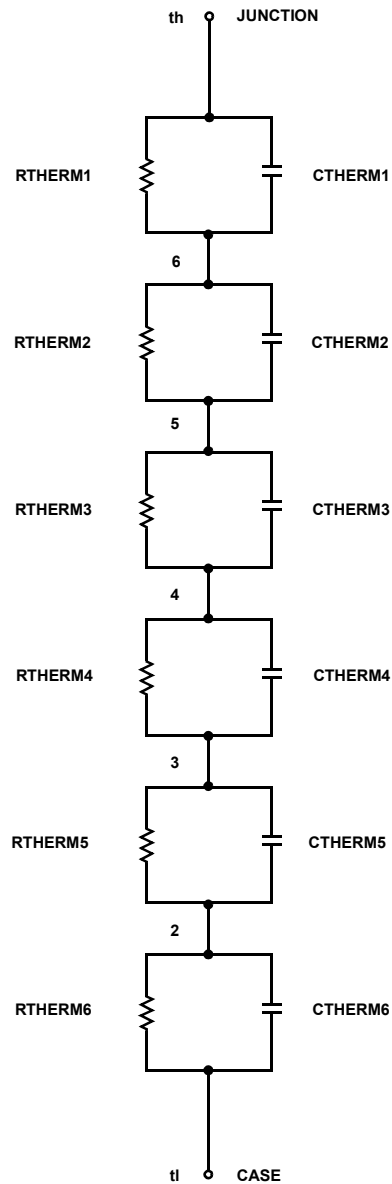
## SABER Thermal Model

SABER thermal model  
ISL9V3040D3S / ISL9V3040S3S / ISL9V3040P3 /  
ISL9V3040S3

template thermal\_model th tl  
thermal\_c th, tl

```
{  
  ctherm.ctherm1 th 6 = 2.1e -3  
  ctherm.ctherm2 6 5 = 1.4e -1  
  ctherm.ctherm3 5 4 = 7.3e -3  
  ctherm.ctherm4 4 3 = 2.2e -1  
  ctherm.ctherm5 3 2 = 1.1e -1  
  ctherm.ctherm6 2 tl = 6.2e +6  
}
```

```
rtherm.rtherm1 th 6 = 1.2e -1  
rtherm.rtherm2 6 5 = 1.9e -1  
rtherm.rtherm3 5 4 = 2.2e -1  
rtherm.rtherm4 4 3 = 6.0e -2  
rtherm.rtherm5 3 2 = 5.8e -2  
rtherm.rtherm6 2 tl = 1.6e -3  
}
```


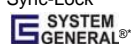





ISL9V3040D3S / ISL9V3040S3S / ISL9V3040P3 / ISL9V3040S3



## TRADEMARKS

The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks.

AccuPower™	F-PFS™		Sync-Lock™
AX-CAP®*	FRFET®	PowerXS™	
BitSiC™	Global Power Resource <sup>SM</sup>	PowerTrench®	TinyBoost®
Build it Now™	GreenBridge™	PowerXS™	TinyBuck®
CorePLUS™	Green FPS™	Programmable Active Droop™	TinyCalc™
CorePOWER™	Green FPS™ e-Series™	QFET®	TinyLogic®
CROSSVOLT™	Gmax™	QS™	TINYOPTO™
CTL™	GTO™	Quiet Series™	TinyPower™
Current Transfer Logic™	IntelliMAX™	RapidConfigure™	TinyPWM™
DEUXPEED®	ISOPLANAR™		TinyWire™
Dual Cool™	Making Small Speakers Sound Louder and Better™	Saving our world, 1mW/W/kW at a time™	TranSiC™
EcoSPARK®	MegaBuck™	SignalWise™	TriFault Detect™
EfficientMax™	MICROCOUPLER™	SmartMax™	TRUECURRENT®*
ESBC™	MicroFET™	SMART START™	μSerDes™
	MicroPak™	Solutions for Your Success™	
Fairchild®	MicroPak2™	SPM®	UHC®
Fairchild Semiconductor®	MillerDrive™	STEALTH™	Ultra FRFET™
FACT Quiet Series™	MotionMax™	SuperFET®	UniFET™
FACT®	mWSaver®	SuperSOT™-3	VCX™
FAST®	OptoHiT™	SuperSOT™-6	VisualMax™
FastvCore™	OPTOLOGIC®	SuperSOT™-8	VoltagePlus™
FETBench™	OPTOPLANAR®	SupreMOS®	XS™
FPS™		SyncFET™	

\* Trademarks of System General Corporation, used under license by Fairchild Semiconductor.

## DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

## LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
2. A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

## ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, [www.fairchildsemi.com](http://www.fairchildsemi.com), under Sales Support.

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

## PRODUCT STATUS DEFINITIONS

### 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.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

Rev. I66

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 [www.onsemi.com/site/pdf/Patent-Marking.pdf](http://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 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 nor the 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 products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, 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 is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

## 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](mailto: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](http://www.onsemi.com)

**Order Literature:** <http://www.onsemi.com/orderlit>

For additional information, please contact your local  
Sales Representative

# Mouser Electronics

Authorized Distributor

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

[ON Semiconductor:](#)

[ISL9V3040S3ST](#)

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9