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FAIRCHILD

SEMICONDUCTOR®

February 2012

ISL9V5045S3ST_F085 EcoSPARK® N-Channel Ignition IGBT 500mJ, 450V

5001115, 450

Features

- SCIS Energy = 500mJ at T_J = 25°C
- Logic Level Gate Drive
- Qualified to AEC Q101
- RoHS Compliant

Applications

Automotive Ignition Coil Driver Circuits

Package

GATE

EMITTER

Coil - On Plug Applications

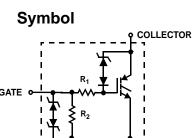
General Description

The ISL9V5045S3ST_F085 is next generation ignition IGBT that offer outstanding SCIS capability in the industry standard D2-Pak (TO-263) plastic package. This device is intended for use in automotive ignition circuits, specifically as a coil drivers. 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.



collector (FLANGE) JEDEC TO-263AB D²-Pak



ISL9V5045S3ST_F085 Rev. A1

Symbol	Parameter	Ratings	Units
BV _{CER}	Collector to Emitter Breakdown Voltage (I _C = 1 mA)	480	V
BV _{ECS}	Emitter to Collector Voltage - Reverse Battery Condition (I _C = 10 mA)	24	V
E _{SCIS25}	At Starting $T_J = 25^{\circ}$ C, $I_{SCIS} = 39.2$ A, L = 650 μ Hy	500	mJ
SCIS150	At Starting $T_J = 150^{\circ}$ C, $I_{SCIS} = 31.1$ A, $L = 650 \mu$ Hy	315	mJ
I _{C25}	Collector Current Continuous, At T _C = 25°C, See Fig 9	51	Α
I _{C110}	Collector Current Continuous, At T _C = 110°C, See Fig 9	43	Α
V _{GEM}	Gate to Emitter Voltage Continuous	±10	V
PD	Power Dissipation Total $T_C = 25^{\circ}C$	300	W
	Power Dissipation Derating T _C > 25°C	2	W/°C
ТJ	Operating Junction Temperature Range	-40 to 175	°C
T _{STG}	Storage Junction Temperature Range	-40 to 175	°C
ΤL	Max Lead Temp for Soldering (Leads at 1.6mm from Case for 10s)	300	°C
T _{pkg}	Max Lead Temp for Soldering (Package Body for 10s)	260	°C
ESD	Electrostatic Discharge Voltage at 100pF, 1500 Ω	4	kV

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
V5045S	ISL9V5045S3ST_F085	TO-263AB	330mm	24mm	800

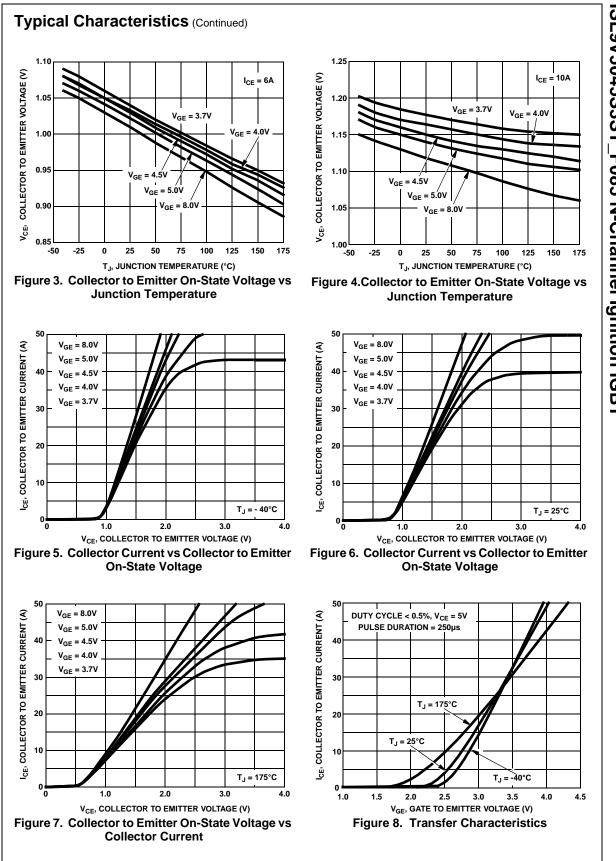
Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Con	ditions	Min	Тур	Max	Units
Off State	Characteristics						
BV _{CER}	Collector to Emitter Breakdown Voltage	$I_C = 2mA$, $V_{GE} = 0$, $R_G = 1K\Omega$, See Fig. 15 $T_J = -40$ to 150°C		420	450	480	V
BV _{CES}	Collector to Emitter Breakdown Voltage	$I_{C} = 10mA, V_{GE} = 0,$ $R_{G} = 0, See Fig. 15$ $T_{J} = -40 \text{ to } 150^{\circ}\text{C}$		445	475	505	V
BV _{ECS}	Emitter to Collector Breakdown Voltage	$I_{C} = -75$ mA, $V_{GE} = 0$ V, $T_{C} = 25$ °C		30	-	-	V
BV _{GES}	Gate to Emitter Breakdown Voltage	$I_{GES} = \pm 2mA$		±12	±14	-	V
ICER	Collector to Emitter Leakage Current	V _{CER} = 320V,	$T_{\rm C} = 25^{\circ}{\rm C}$	-	-	25	μA
		$R_G = 1K\Omega$, See Fig. 11	T _C = 150°C	-	-	1	mA
I _{ECS}	Emitter to Collector Leakage Current	V _{EC} = 24V, See	$T_{C} = 25^{\circ}C$	-	-	1	mA
	Fig. 11	Fig. 11	$T_{C} = 150^{\circ}C$	-	-	40	mA
R ₁	Series Gate Resistance			-	100	-	Ω
R ₂	Gate to Emitter Resistance			10K	-	30K	Ω
On State	Characteristics						
V _{CE(SAT)}	Collector to Emitter Saturation Voltage	I _C = 10A, V _{GE} = 4.0V	T _C = 25°C, See Fig. 4	-	1.25	1.60	V

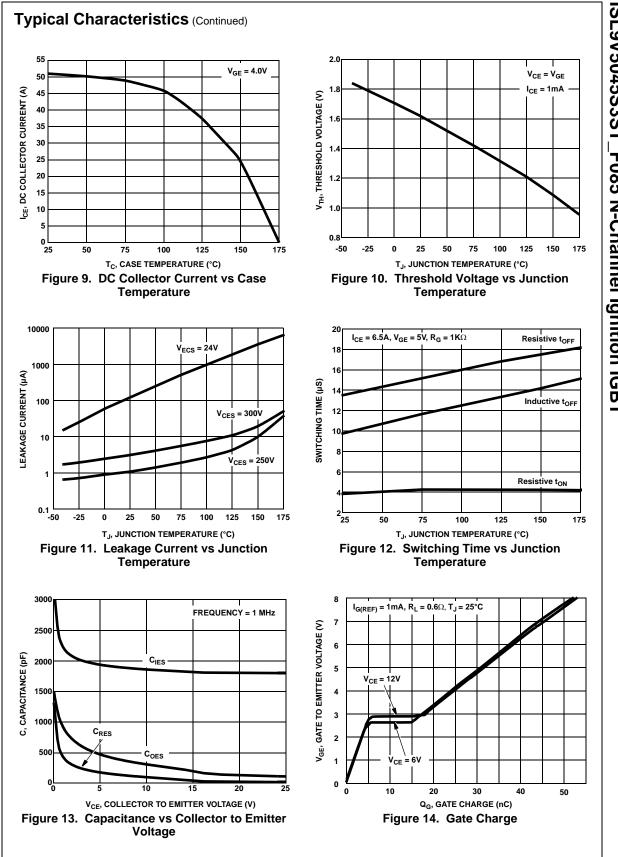
V _{CE(SAT)}	Collector to Emitter Saturation Voltage	•	T _C = 25°C, See Fig. 4	-	1.25	1.60	V
V _{CE(SAT)}	Collector to Emitter Saturation Voltage	I _C = 15A, V _{GE} = 4.5V	T _C = 150°C	-	1.47	1.80	V

$\frac{V_{QE} = 5V, See Fig. 14}{V_{QE} = 5V, See Fig. 14}$ $\frac{V_{QE} = 5V, See Fig. 12}{V_{QE} = 100, V_{QE} = 25\% C}$ $\frac{1.3}{V_{QE} = 12V - 3.0 - V}$ $\frac{V_{QE} = V_{QE}}{V_{QE}}$ $\frac{V_{QE} = V_{QE}}{See Fig. 10}$ $\frac{V_{QE} = 12V - 3.0 - V}{V_{QE} = 12V - 3.0 - V}$ $\frac{V_{QE} = 12V - 3.0 - V$ $\frac{V_{QE} = 12V - 3.0 - V}{V_{QE} = 12V - 3.0 - V}$ $\frac{V_{QE} = 12V - 3.0 - V$ $\frac{V_{QE} = 12V - 3.0 - V}{V_{QE} = 12V - 3.0 - V}$ $\frac{V_{QE} = 12V - 3.0 - V$ $\frac{V_{QE} = 12V - 3.0 - V}{V_{QE} = 12V - 3.0 - V}$ $\frac{V_{QE} = 12V - 3.0 - V$ $\frac{V_{QE} = 5V, R_{Q} = 1K\Omega}{V_{QE} = 5V, R_{Q} = 1K\Omega}$ $\frac{V_{QE} = 5V, R_{Q} = 1K\Omega}{V_{QE} = 5V, R_{Q} = 1K\Omega}$ $\frac{V_{QE} = 5V, R_{Q} = 1K\Omega}{V_{QE} = 5V, See Fig. 12}$ $\frac{V_{QE} = 5V, See Fig. 12}{V_{QE} = 5V, See - 1}$ $\frac{V_{QE} = 5V, See Fig. 12}{V_{QE} = 5V, See - 1}$ $\frac{V_{QE} = 12V - 3.0 - V$ $\frac{V_{QE} = 12V - 3.0 - V}{V_{QE} = 5V, R_{Q} = 1K\Omega}$ $\frac{V_{QE} = 5V, R_{Q} = 1K\Omega}{V_{QE} = 5V, R_{Q} = 1K\Omega}$ $\frac{V_{QE} = 5V, R_{Q} = 1K\Omega}{V_{QE} = 5V, See - 1}$ $\frac{V_{QE} = 5V, R_{Q} = 1V\Omega}{V_{QE} = 5V, See - 1}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 5V, See - 1}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 5V, See - 1}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 12V - 2.8 + 100}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 12V - 2.8 + 100}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 12V - 2.8 + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 10V + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 10V + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 10V + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 10V + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 10V + 100}{V_{QE} = 10V + 100}$ $\frac{V_{QE} = 10V + 100}{V_{QE} = 10V + 100}$ V	Q _{G(ON)}	Gate Charge	$I_{C} = 10A, V_{CE} =$		-	32	-	nC
$V_{GEP} Gate to Emitter Plateau Voltage _C = V_{GE} See Fig. 10 V_{GEP} Gate to Emitter Plateau Voltage _C = 10A, V_{CE} = 150°C 0.75 - 1.8 V V_{GEP} Gate to Emitter Plateau Voltage _C = 10A, V_{CE} = 12V - 3.0 - V vitching Characteristics V_{GEP} Gate to Emitter Plateau Voltage _C = 10A, V_{CE} = 14V, R_L = 1\Omega, - 0.7 + 4 \mu s V_{GE} = 5V, R_G = 1K\Omega - 2.1 + 7 \mu s V_{GE} = 5V, R_G = 1K\Omega - 2.1 + 7 \mu s V_{GE} = 5V, R_G = 1K\Omega - 2.1 + 7 \mu s V_{GE} = 5V, R_G = 1K\Omega - 2.8 + 15 \mu s V_{GE} = 5V, R_G = 14V + 15 \mu s V_{GE} = 5V, R_G = 14V + 15 \mu s V_{GE} = 5V, R_G = 14V + 15 \mu s V_{GE} = 5V, R_G = 14V + 15 \mu s V_{GE} = 5V, R_G = 14$		Gate to Emitter Threshold Voltage	-		13	_	22	V
VGEPGate to Emitter Plateau VoltageIc = 10A,VCE = 12V3.0V <i>itching Characteristics</i> td(ON)RCurrent Turn-On Delay Time-ResistiveVCE = 14V, RL = 1Ω, VGE = 5V, Rg = 1KΩ-0.74µstrueVGE = 5V, Rg = 1KΩ-2.17µstd(OFF)LCurrent Turn-Off Delay Time-InductiveVCE = 300V, L = 2mH, VGE = 5V, Rg = 112-10.815µstd(OFF)LCurrent Fall Time-InductiveVGE = 5V, Rg = 1KΩ, VGE = 5V, Rg = 1KΩ, VGE = 5V, See Fig. 12-2.815µsSCISSelf Clamped Inductive SwitchingTJ = 25°C, L = 650 µH, Rg = 1KΩ, VGE = 5V, See500mJermal CharacteristicsdoRg = 1KΩ, VGE = 5V, Vdg = 14V0.5°C/WdoRg = 1KΩ, VGE = 5V, Vdg = 14V0.5°C/Wdo	GE(TH)		$V_{CE} = V_{GE}$	-		-		-
$\frac{t_{d(ON)R}}{t_{rR}} \frac{Current Turn-On Delay Time-Resistive}{t_{rR}} V_{CE} = 14V, R_{L} = 1\Omega, \frac{0.7 4 \mu s}{V_{GE} = 5V, R_{G} = 14\Omega}$ $\frac{1}{t_{rR}} \frac{Current Rise Time-Resistive}{T_{J} = 25^{\circ}C, See Fig. 12} \frac{1.2 - 2.1 7 \mu s}{1.0.8 15 \mu s}$ $\frac{t_{d(OFF)L}}{t_{L}} \frac{Current Turn-Off Delay Time-Inductive}{T_{J} = 25^{\circ}C, See Fig. 12} \frac{1.2 - 2.8 15 \mu s}{1.2 - 2.8 15 \mu s}$ $\frac{t_{d(OFF)L}}{SCIS} \frac{Self Clamped Inductive Switching}{T_{J} = 25^{\circ}C, See Fig. 12} \frac{1.2 - 2.8 15 \mu s}{1.2 - 2.8 15 \mu s}$ $\frac{rmal Characteristics}{r_{G} = 1K\Omega, V_{GE} = 5V, See Fig. 12} \frac{1.2 - 2.8 15 \mu s}{1.2 - 2.8 15 \mu s}$ $\frac{rmal Characteristics}{r_{G} = 1K\Omega, V_{GE} = 5V, See Fig. 12} \frac{1.2 - 2.8 15 \mu s}{1.2 - 2.8 15 \mu s}$ $\frac{r_{G} = 1K\Omega, V_{GE} = 5V, See Fig. 12}{r_{J} = 25^{\circ}C, See Fig. 12} \frac{1.8 2}{1.8 2}$ $\frac{r_{G} = 1K\Omega, V_{GE} = 5V, See Fig. 12}{r_{J} = 25^{\circ}C, See Fig. 12} \frac{1.8 2}{1.8 2}$ $\frac{r_{G} = 1K\Omega, V_{GE} = 5V, V_{dd} = 14V}{r_{J} = 25^{\circ}C, See Fig. 12} \frac{1.8 2}{1.8 2} \frac{1.8 2}{1.8 2}$ $\frac{r_{G} = 1K\Omega, V_{GE} = 5V, V_{dd} = 14V}{r_{J} = 25^{\circ}C, See Fig. 12} \frac{1.8 2}{1.8 2} $	V_{GEP}	Gate to Emitter Plateau Voltage		V _{CE} = 12V	-	3.0	-	V
t_{rR} Current Rise Time-Resistive $V_{GE} = 5V, R_G = 1K\Omega$ $T_J = 25^\circ C, See Fig. 12$ -2.17 μs $t_{d(OFF)L}$ Current Turn-Off Delay Time-Inductive $V_{CE} = 300V, L = 2mH,$ $T_J = 25^\circ C, See Fig. 12-10.815\mu sSCISSelf Clamped Inductive SwitchingT_J = 25^\circ C, See Fig. 12-2.815\mu sSCISSelf Clamped Inductive SwitchingT_J = 25^\circ C, L = 650 \mu H,R_G = 1K\Omega, V_{GE} = 5V, See500mJermal CharacteristicsR_{0,JC}Thermal Resistance Junction-CaseTO-2630.5°C/W//pical Characteristicsd_{0,JC}T_J = 150°CT_J = 25°C-0.5°C/Wf_{0,JC}T_J = 150°CT_J = 25°C0.5°C/Wf_{0,JC}T_J = 25°CT_J = 25°C0.5°C/Wf_{0,JC}T_J = 25°CT_J = 25°C0.5°C/Wf_{0,JC}T_J = 25°CT_J = 150°C0.5°C/Wf_{0,JC}T_J = 150°C0.5°C/Wf_{0,JC}T_J = 150°C0.5°C/Wf_{0,JC}T_J = 150°C0.5°C/Wf_{0,JC}T_J = 150°C0.5°C/Wf_{0,JC}T_J = 150°C0.5°C/Wf_{0,JC}T_J = 150°C0.5°C/W$	vitching	g Characteristics						
T _J = 25°C, See Fig. 12 t_{ICOFFL} Current Turn-Off Delay Time-Inductive t_{IL} Current Fall Time-Inductive t_{IL} Current Fall Time-Inductive $V_{GE} = 5V, R_G = 1K\Omega$ $T_J = 25°C, See Fig. 12$ SCIS Self Clamped Inductive Switching T_J = 25°C, L = 650 µH, $R_G = 1K\Omega, V_{GE} = 5V, See$ Fig. 1 & 2 ermal Characteristics $R_{0,JC}$ Thermal Resistance Junction-Case TO-263 0.5 °C/W /pical Characteristics $r_{J} = 25°C$ for $T_J = 150°C$ $r_{J} = 150°C$ $r_{J} = 25°C$ for $T_J = 150°C$ $r_{J} = 25°C$ for $T_J = 150°C$ $r_{J} = 150°C$ for $T_J = 150°C$ for $T_J = 150°C$ for $T_J = 25°C$ for $T_J = 150°C$ for $T_J $	t _{d(ON)R}	Current Turn-On Delay Time-Resistive			-	0.7	4	μs
$\frac{t_{d(OFF)L}}{t_{lL}} \begin{array}{c} Current Turn-Off Delay Time-Inductive}{t_{lL}} & V_{CE} = 300V, L = 2mH, \\ V_{GE} = 5V, R_G = 1K\Omega, \\ V_{GE} = 5V, R_G = 1K\Omega, \\ T_J = 25^{\circ}C, See Fig. 12 \\ \hline 2.8 \\ 15 \\ \mu s \\ \hline 1.2 \\ \hline 2.8 \\ 15 \\ \mu s \\ \hline 2.8 \\ \hline 1.2 \\ \hline 2.8 \\ \hline 1.5 \\ \mu s \\ \hline 2.8 \\ \hline 1.5 \\ \mu s \\ \hline 2.8 \\ \hline 1.5 \\ \mu s \\ \hline 1.5 \\ \hline $	t _{rR}	Current Rise Time-Resistive			-	2.1	7	μs
t _{fL} Current Fall Time-Inductive $V_{GE} = 5V, R_G = 1K\Omega$ $T_J = 25^{\circ}C, See Fig. 12$ - 2.8 15 µs SCIS Self Clamped Inductive Switching $T_J = 25^{\circ}C, L = 650 \mu$ H, $R_G = 1K\Omega$, $V_{GE} = 5V$, See Fig. 1 2 - 500 mJ ermal Characteristics $R_{0,JC}$ Thermal Resistance Junction-Case TO-263 - 0.5 °C/W /pical Characteristics $q_{0,JC}$ To the result for V _{clamp} Voltages of <480V $r_{J} = 25^{\circ}C$ for $T_J = 25^{\circ}C$	d(OFF)L	Current Turn-Off Delay Time-Inductive	V _{CE} = 300V, L =	= 2mH,	-	10.8	15	μs
SCISSelf Clamped Inductive Switching $T_J = 25^{\circ}C, L = 650 \muH, R_G = 1K\Omega, V_{GE} = 5V, See Fig. 1 & 2ermal CharacteristicsR_{0,JC}Thermal Resistance Junction-CaseTO-263-0.5°C/Wvpical Characteristics40^{-35}_{-30}T_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}C40^{-35}_{-30}T_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}C40^{-35}_{-30}T_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}C40^{-35}_{-5}T_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}C40^{-35}_{-5}T_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}C40^{-35}_{-5}T_{-3} = 25^{\circ}CT_{-3} = 25^{\circ}C40^{-35}_{-5}T_{-3}$		Current Fall Time-Inductive			-	2.8	15	μs
ermal Characteristics $R_{0,JC}$ Thermal Resistance Junction-Case TO-263 - 0.5 °C/W /pical Characteristics $I_{0,JC}$ Thermal Resistance Junction-Case TO-263 - 0.5 °C/W /pical Characteristics $I_{0,JC}$ T _J = 25°C $I_{0,JC}$	SCIS	Self Clamped Inductive Switching	$T_J = 25^{\circ}C, L = 0$ $R_G = 1K\Omega, V_{GE}$	650 μH,	-	-	500	mJ
R_{0,JC}Thermal Resistance Junction-CaseTO-263-0.5°C/Wvpical Characteristics 10^{-0} 10^{-0} $R_{g} = 1K\Omega, V_{gE} = 5V, V_{dd} = 14V$ 10^{-0} $R_{g} = 1K\Omega, V_{gE} = 5V, V_{dd} = 14V$ 10^{-0}	ermal (Characteristics	Ū					
ypical Characteristics $10^{0} \xrightarrow{R_{g} = 1K\Omega, V_{GE} = 5V, V_{dd} = 14V}$ $10^{0} \xrightarrow{R_{g} = 1K\Omega, V_{GE} = 5V, V_{dd} = 14V}$ $10^{0} \xrightarrow{T_{g} = 25^{\circ}C}$ $10^{0} \xrightarrow{T_{g} = 150^{\circ}C}$ $10^{0} \xrightarrow{T_{g} = 150^{\circ}C}$			TO-263		-	-	0.5	°C/W
	25	T _J = 25°C			r _J = 25°C			

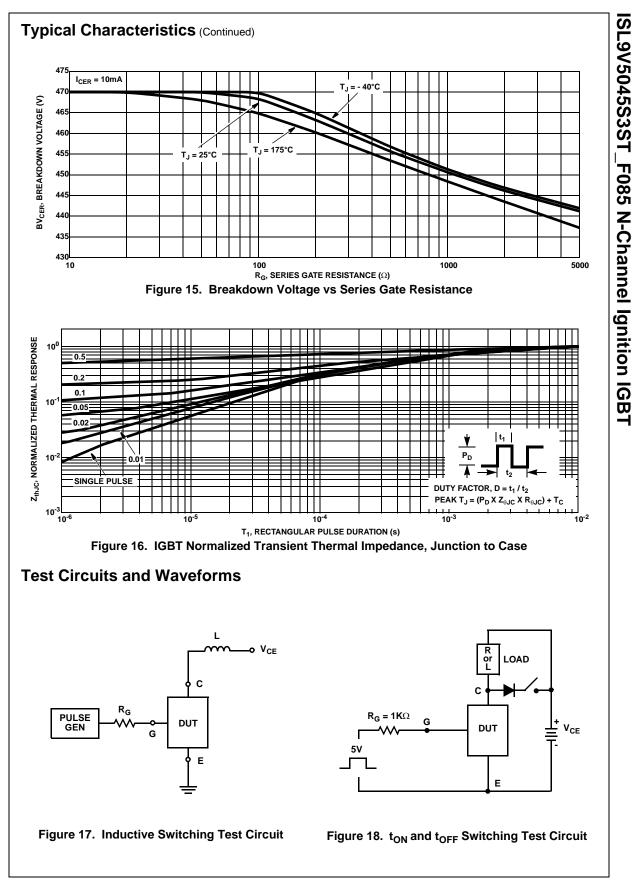
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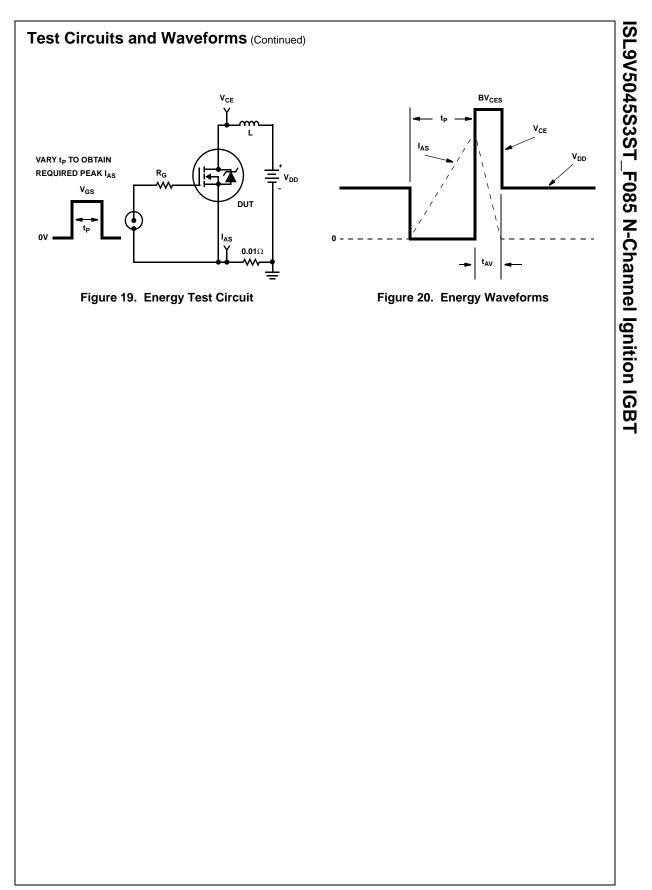






ISL9V5045S3ST_F085 N-Channel Ignition IGBT





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