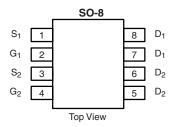


## N- and P-Channel 40-V (D-S) MOSFET

PRODUCT SUMMARY							
	V <sub>DS</sub> (V)	$R_{DS(on)}(\Omega)$	I <sub>D</sub> (A) <sup>a</sup>	Q <sub>g</sub> (Typ.)			
N-Channel	40	$0.0355$ at $V_{GS} = 10 \text{ V}$	6.8	5.3			
	40	$0.0425$ at $V_{GS} = 4.5 \text{ V}$	6.2	5.5			
P-Channel	nnel - 40	$0.045$ at $V_{GS} = -10 \text{ V}$	- 5.8	11.8			
1 -Onallie		$0.062$ at $V_{GS} = -4.5 \text{ V}$	- 5.0	11.0			



Ordering Information: Si4599DY-T1-GE3 (Lead (Pb)-free and Halogen-free)

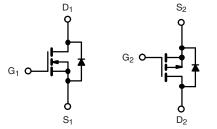
#### **FEATURES**

- Halogen-free
- TrenchFET® Power MOSFET
- 100 % R<sub>g</sub> Tested 100 % UIS Tested

COMPLIANT

#### **APPLICATIONS**

- Backlight Inverter for LCD Display
- Full Bridge Converter



N-Channel MOSFET

P-Channel MOSFET

Parameter	Symbol	N-Channel	P-Channel	Unit	
Drain-Source Voltage	V <sub>DS</sub>	40	- 40	V	
Gate-Source Voltage	V <sub>GS</sub>	±	7 v		
	T <sub>C</sub> = 25 °C		6.8	- 5.8	
Continuous Drain Current /T 150 °C\	T <sub>C</sub> = 70 °C		5.4	- 4.7	
Continuous Drain Current (T <sub>J</sub> = 150 °C)	T <sub>A</sub> = 25 °C	I <sub>D</sub>	5.6 <sup>b, c</sup>	- 4.7 <sup>b, c</sup>	
	T <sub>A</sub> = 70 °C		4.4 <sup>b, c</sup>	- 3.7 <sup>b, c</sup>	
Pulsed Drain Current	I <sub>DM</sub>	20	- 20	Α	
Course Ducie Courset Diede Courset	T <sub>C</sub> = 25 °C		2.5	- 2.5	
Source-Drain Current Diode Current	T <sub>A</sub> = 25 °C	- I <sub>S</sub> -	1.6 <sup>b, c</sup>	- 1.6 <sup>b, c</sup>	
Pulsed Source-Drain Current	I <sub>SM</sub>	20	- 20		
Single Pulse Avalanche Current		I <sub>AS</sub>	7	- 10	
Single Pulse Avalanche Energy	L = 0 1 mH	E <sub>AS</sub>	2.45	5	mJ
	T <sub>C</sub> = 25 °C		3.0	3.1	
Manipular Davier Discipation	T <sub>C</sub> = 70 °C		1.9	2	10/
Maximum Power Dissipation	T <sub>A</sub> = 25 °C	P <sub>D</sub>	2.0 <sup>b, c</sup>	2.0 <sup>b, c</sup>	W
	T <sub>A</sub> = 70 °C		1.25 <sup>b, c</sup>	1.25 <sup>b, c</sup>	
Operating Junction and Storage Temperature Ra	T <sub>J</sub> , T <sub>stg</sub>	- 55 t	°C		

THERMAL RESISTANCE RATINGS									
		N-Channel P-C			annel				
Parameter			Тур.	Max.	Тур.	Max.	Unit		
Maximum Junction-to-Ambient <sup>b, d</sup> t ≤ 10 s		R <sub>thJA</sub>	54	64	49	62.5	°C/W		
Maximum Junction-to-Foot (Drain)	Steady State	R <sub>thJF</sub>	33	42	30	40	O/ <b>VV</b>		

- a. Based on  $T_C$  = 25 °C.
- b. Surface Mounted on 1" x 1" FR4 board.
- c. t = 10 s.
- d. Maximum under Steady State conditions is 120 °C/W.

## Si4599DY Vishay Siliconix



Parameter	Symbol	Test Conditions		Min.	Typ. <sup>a</sup>	Max.	Unit
Static	,		l				l
Durin Course Burnhalous Valle	V	$V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$	N-Ch	40			.,
Drain-Source Breakdown Voltage	V <sub>DS</sub>	$V_{GS} = 0 \text{ V, } I_{D} = -250 \mu\text{A}$	P-Ch	- 40			V
V Tamanamatuma Caaffiniama	A) / /T	I <sub>D</sub> = 250 μA	N-Ch		44		
V <sub>DS</sub> Temperature Coefficient	$\Delta V_{DS}/T_{J}$	I <sub>D</sub> = - 250 μA	P-Ch		- 42		
V Tanana ana hana O a Waisan	/T	I <sub>D</sub> = 250 μA	N-Ch		- 5.5		mV/°
V <sub>GS(th)</sub> Temperature Coefficient	$\Delta V_{GS(th)}/T_J$	II <sub>D</sub> = - 250 μA	P-Ch		4.6		
	.,	$V_{DS} = V_{GS}, I_D = 250 \mu A$	N-Ch	1.4		3.0	1
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_{D} = -250 \mu A$	P-Ch	- 1.2		- 2.5	V
Oaks Bartal aslance		$V_{DS} = 0 \text{ V}, V_{GS} = \pm 20 \text{ V}$	N-Ch			100	4
Gate-Body Leakage	I <sub>GSS</sub>		P-Ch			- 100	nA
		$V_{DS} = 40 \text{ V}, V_{GS} = 0 \text{ V}$	N-Ch			1	μΑ
Zava Cata Valtaga Dvain Current		V <sub>DS</sub> = - 40 V, V <sub>GS</sub> = 0 V	P-Ch			- 1	
Zero Gate Voltage Drain Current	I <sub>DSS</sub>	$V_{DS} = 40 \text{ V}, V_{GS} = 0 \text{ V}, T_{J} = 55 ^{\circ}\text{C}$	N-Ch			10	
		$V_{DS} = -40 \text{ V}, V_{GS} = 0 \text{ V}, T_{J} = 55 ^{\circ}\text{C}$	P-Ch			- 10	
On-State Drain Current <sup>b</sup>	I <sub>D(on)</sub>	$V_{DS} = 5 \text{ V}, V_{GS} = 10 \text{ V}$	N-Ch	10			А
		$V_{DS} = -5 \text{ V}, V_{GS} = -10 \text{ V}$	P-Ch	- 10			
Drain-Source On-State Resistance <sup>b</sup>	R <sub>DS(on)</sub>	$V_{GS} = 10 \text{ V}, I_D = 5 \text{ A}$	N-Ch		0.0295	0.0355	Ω
		V <sub>GS</sub> = - 10 V, I <sub>D</sub> = - 5 A	P-Ch		0.037	0.045	
		$V_{GS} = 4.5 \text{ V}, I_D = 4 \text{ A}$	N-Ch		0.0355	0.0425	
		$V_{GS} = -4.5 \text{ V}, I_D = -4 \text{ A}$	P-Ch		0.050	0.062	
	9 <sub>fs</sub>	$V_{DS} = 15 \text{ V}, I_{D} = 5 \text{ A}$	N-Ch		22		_
Forward Transconductance <sup>b</sup>		V <sub>DS</sub> = - 15 V, I <sub>D</sub> = - 5 A	P-Ch		14		S
Dynamic <sup>a</sup>							
•			N-Ch		640		
Input Capacitance	C <sub>iss</sub>	N-Channel	P-Ch		970		
Output Capacitance	C <sub>oss</sub>	$V_{DS} = 20 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$	N-Ch		73		pF
- Carpar Capacitarios	Oss	P-Channel	P-Ch		120		— рг —
Reverse Transfer Capacitance	C <sub>rss</sub>	$V_{DS} = -20 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$	N-Ch		41		
·		V 00 V V 10 V I 5 A	P-Ch		95		
		$V_{DS} = 20 \text{ V}, V_{GS} = 10 \text{ V}, I_D = 5 \text{ A}$	N-Ch		11.7	20	
Total Gate Charge	$Q_{g}$	$V_{DS} = -20 \text{ V}, V_{GS} = -10 \text{ V}, I_{D} = -5 \text{ A}$	P-Ch		25	38	
-	,	N-Channel	N-Ch		5.3	9	4
		$V_{DS} = 20 \text{ V}, V_{GS} = 4.5 \text{ V} I_D = 5 \text{ A}$	P-Ch N-Ch		11.8	18	nC
Gate-Source Charge	$Q_{gs}$		P-Ch		3.0	-	ł
	Q <sub>gd</sub>	P-Channel $V_{DS} = -20 \text{ V}, V_{GS} = -4.5 \text{ V}, I_{D} = -5 \text{ A}$	N-Ch		1.7		
Gate-Drain Charge		v <sub>DS</sub> = -20 v, v <sub>GS</sub> = -4.3 v, I <sub>D</sub> = -5 A	P-Ch		5.2	1	1
0.1.5		f = 1 MHz	N-Ch	0.5	2.2	4.5	_
Gate Resistance	$R_g$		P-Ch	1.0	5.5	11	Ω





<b>SPECIFICATIONS</b> $T_J = 25  ^{\circ}\text{C}$ ,				Min.	_ 2		
Parameter	Symbol Test Conditions				Typ. <sup>a</sup>	Max.	Unit
Dynamic <sup>a</sup>							
Turn-On Delay Time	t <sub>d(on)</sub>	N. Champal	N-Ch		7	14	
	u(on)	N-Channel $V_{DD} = 20 \text{ V, } R_L = 4 \Omega$	P-Ch N-Ch		7	14	
Rise Time	t <sub>r</sub>	$I_D \cong 5 \text{ A}, V_{GEN} = 10 \text{ V}, R_q = 1 \Omega$			10	20	1
		- D = 0 + 3 + GEN + 0 + 3 + 5 - 9 +	P-Ch		12	24	
Turn-Off Delay Time	$t_{d(off)}$	P-Channel	N-Ch		15	30	ns
	u(on)	$V_{DD} = -20 \text{ V}, R_L = 4 \Omega$	P-Ch		30	60	
Fall Time	t <sub>f</sub>	$I_D \cong$ - 5 A, $V_{GEN}$ = - 10 V, $R_g$ = 1 $\Omega$	N-Ch		9	18	
			P-Ch		9	18	
Turn-On Delay Time	t <sub>d(on)</sub>	N-Channel	N-Ch		16	30	
	u(on)	$V_{DD} = 20 \text{ V, } R_L = 4 \Omega$	P-Ch		44	80	- - - - -
Rise Time		$I_D \cong 5 \text{ A}, V_{GEN} = 4.5 \text{ V}, R_q = 1 \Omega$	N-Ch		17	30	
		GEN	P-Ch		33	50	
Turn-Off Delay Time	t <sub>d(off)</sub>	P-Channel	N-Ch		16	30	
		$V_{DD} = -20 \text{ V}, R_L = 4 \Omega$	P-Ch		28	60	
Fall Time	t <sub>f</sub>	$I_D \cong$ - 5 A, $V_{GEN}$ = - 4.5 V, $R_g$ = 1 $\Omega$	N-Ch		10	20	
			P-Ch		13	25	
<b>Drain-Source Body Diode Characterist</b>	ics		1		1		ı
Continuous Source-Drain Diode Current	I <sub>S</sub>	T <sub>C</sub> = 25 °C	N-Ch			2.5	
		Ü	P-Ch			- 2.5	Α
Pulse Diode Forward Current <sup>a</sup>	I <sub>SM</sub>		N-Ch			20	
T disc Blode Forward Current			P-Ch			- 20	
Body Diode Voltage	$V_{SD}$	I <sub>S</sub> = 1.6 A	N-Ch		0.78	1.2	V
Body Blode Voltage	<b>▼</b> SD	I <sub>S</sub> = - 1.6 A	P-Ch		- 0.76	- 1.2	*
Pady Diada Dayaraa Dagayary Tima	t <sub>rr</sub>		N-Ch		19	30	
Body Diode Reverse Recovery Time			P-Ch		26	50	ns
Pady Diada Dayaraa Dagayary Charga	Q <sub>rr</sub>	N-Channel	N-Ch		14	25	~C
Body Diode Reverse Recovery Charge		$I_F = 2 \text{ A}, \text{ dI/dt} = 100 \text{ A/}\mu\text{s}, T_J = 25 \text{ °C}$	P-Ch		18.5	35	nC
Poverse Pessyary Fall Time	t <sub>a</sub>	P-Channel	N-Ch		13		
Reverse Recovery Fall Time		$I_F = -2 \text{ A}$ , $dI/dt = -100 \text{ A/}\mu\text{s}$ , $T_J = 25 \text{ °C}$	P-Ch		12.5		
Deverse Deservery Dies Time	t <sub>b</sub>	]	N-Ch		6		ns
Reverse Recovery Rise Time			P-Ch		13.5		1

#### Notes:

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

a. Guaranteed by design, not subject to production testing.

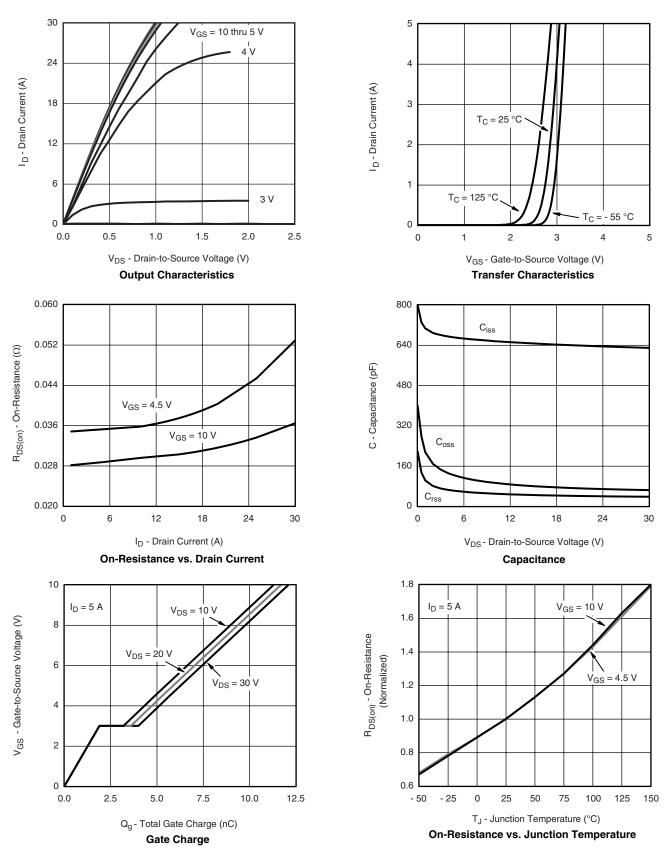
b. Pulse test; pulse width  $\leq 300~\mu s,$  duty cycle  $\leq 2~\%.$ 

### Si4599DY

## Vishay Siliconix

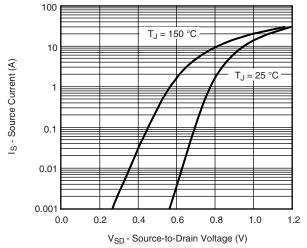


#### N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

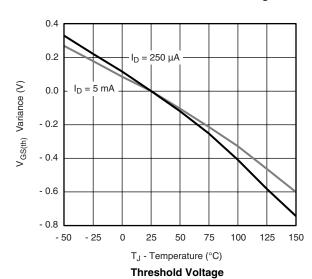




#### N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

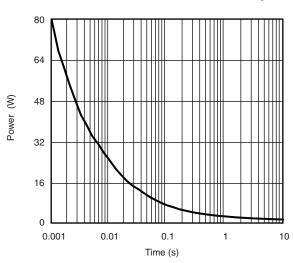


#### Source-Drain Diode Forward Voltage

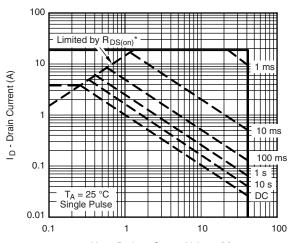


0.20  $I_D = 5 \text{ A}$   $I_D = 6 \text{ A}$   $I_D = 6$ 

 $\label{eq:VGS} V_{GS} \mbox{ - Gate-to-Source Voltage (V)} \\$  On-Resistance vs. Gate-to-Source Voltage



Single Pulse Power, Junction-to-Ambient

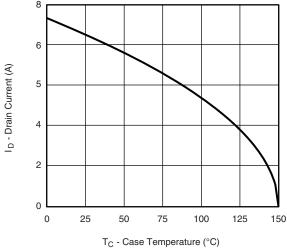


 $V_{DS} \text{ - Drain-to-Source Voltage (V)} \\ ^*V_{GS} > \text{minimum } V_{GS} \text{ at which } r_{DS(on)} \text{ is specified}$ 

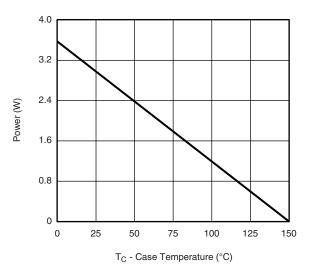
Safe Operating Area, Junction-to-Ambient

## VISHAY.

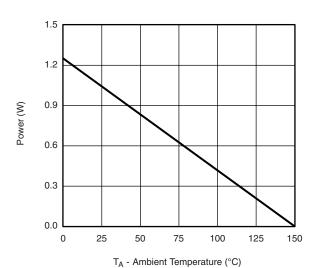
#### N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



Current Derating\*





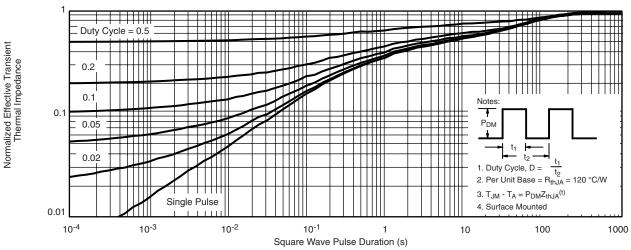


Power Derating, Junction-to-Ambient

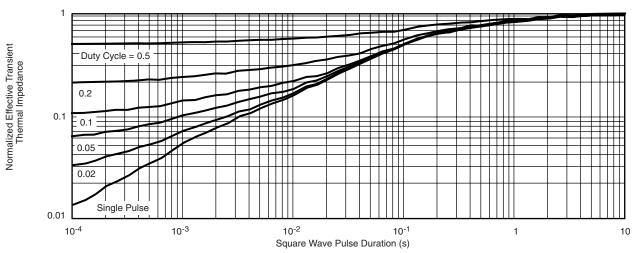
<sup>\*</sup> The power dissipation  $P_D$  is based on  $T_{J(max)} = 150$  °C, using junction-to-case thermal resistance, and is more useful in settling the upper dissipation limit for cases where additional heatsinking is used. It is used to determine the current rating, when this rating falls below the package limit.



#### N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



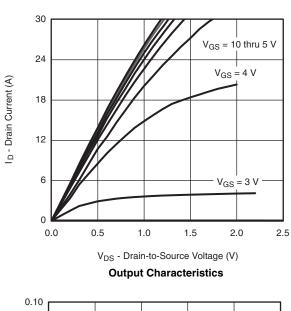
Normalized Thermal Transient Impedance, Junction-to-Ambient

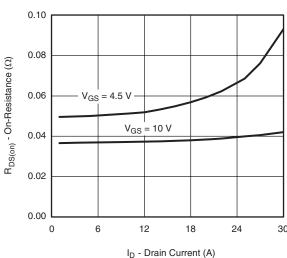


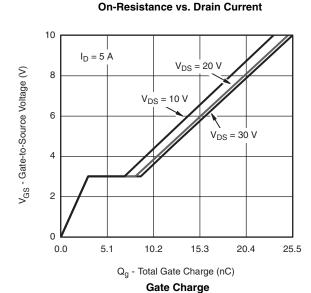
Normalized Thermal Transient Impedance, Junction-to-Foot

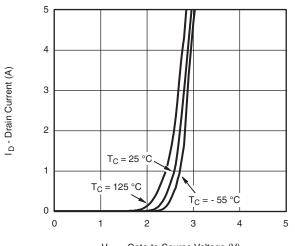
# VISHAY

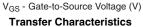
#### P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

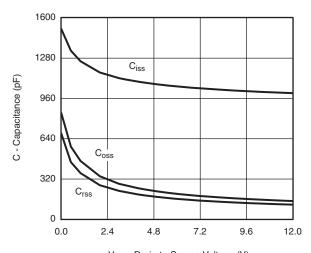






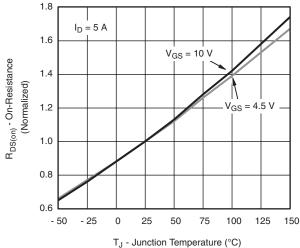






 $V_{\mbox{\scriptsize DS}}$  - Drain-to-Source Voltage (V)

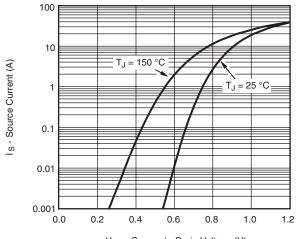
## Capacitance



On-Resistance vs. Junction Temperature

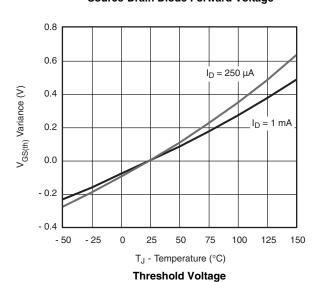


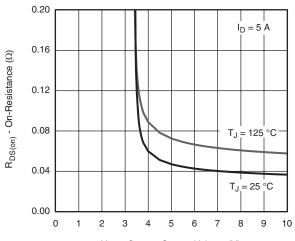
#### P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



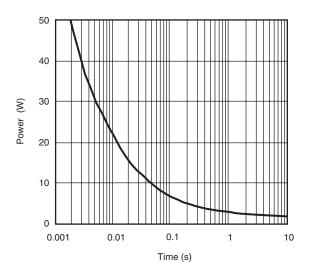
 $V_{\mbox{SD}}$  - Source-to-Drain Voltage (V)

#### **Source-Drain Diode Forward Voltage**

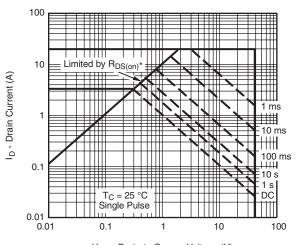




 $\label{eq:VGS} V_{GS} \mbox{ - Gate-to-Source Voltage (V)} \\$  On-Resistance vs. Gate-to-Source Voltage



Single Pulse Power, Junction-to-Ambient



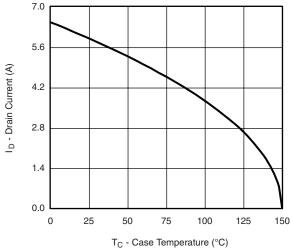
 $V_{\mbox{\footnotesize DS}}$  - Drain-to-Source Voltage (V)

Safe Operating Area, Junction-to-Ambient

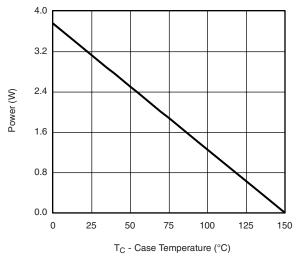
 $<sup>^{\</sup>star}$   $V_{GS}$  > minimum  $V_{GS}$  at which  $R_{DS(on)}$  is specified

# VISHAY.

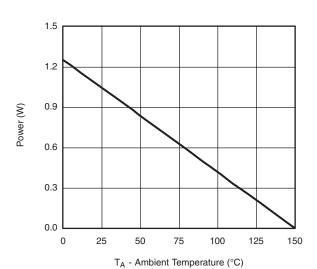
#### P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



Current Derating\*





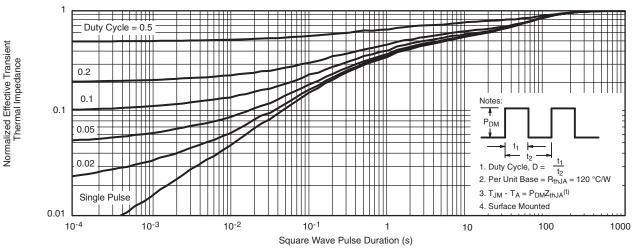


Power Derating, Junction-to-Ambient

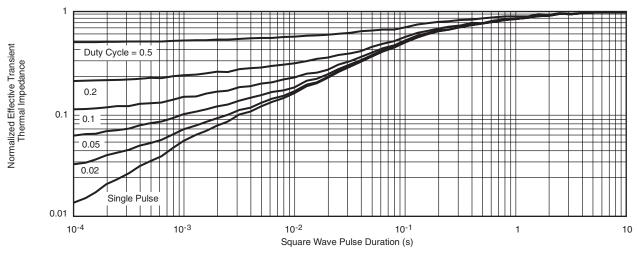
<sup>\*</sup> The power dissipation  $P_D$  is based on  $T_{J(max)} = 150$  °C, using junction-to-case thermal resistance, and is more useful in settling the upper dissipation limit for cases where additional heatsinking is used. It is used to determine the current rating, when this rating falls below the package limit.



#### P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



Normalized Thermal Transient Impedance, Junction-to-Ambient

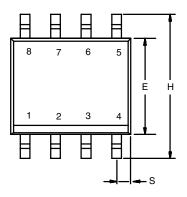


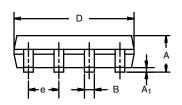
Normalized Thermal Transient Impedance, Junction-to-Foot

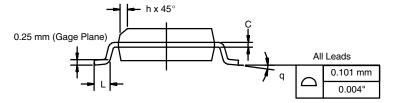
Vishay Siliconix maintains worldwide manufacturing capability. Products may be manufactured at one of several qualified locations. Reliability data for Silicon Technology and Package Reliability represent a composite of all qualified locations. For related documents such as package/tape drawings, part marking, and reliability data, see <a href="http://www.vishay.com/ppg?68971">http://www.vishay.com/ppg?68971</a>.



SOIC (NARROW): 8-LEAD JEDEC Part Number: MS-012







	MILLIM	IETERS	INCHES				
DIM	Min	Max	Min	Max			
Α	1.35	1.75	0.053	0.069			
A <sub>1</sub>	0.10	0.20	0.004	0.008			
В	0.35	0.51	0.014	0.020			
С	0.19	0.25	0.0075	0.010			
D	4.80	5.00	0.189	0.196			
Е	3.80	4.00	0.150	0.157			
е	1.27	1.27 BSC		) BSC			
Н	5.80	6.20	0.228	0.244			
h	0.25	0.50	0.010	0.020			
L	0.50	0.93	0.020	0.037			
q	0°	8°	0°	8°			
S	0.44	0.64	0.018	0.026			
ECN: C-06527-Rev. I. 11-Sep-06							

DWG: 5498

Document Number: 71192 www.vishay.com 11-Sep-06

## Mounting LITTLE FOOT®, SO-8 Power MOSFETs

#### Wharton McDaniel

Surface-mounted LITTLE FOOT power MOSFETs use integrated circuit and small-signal packages which have been been modified to provide the heat transfer capabilities required by power devices. Leadframe materials and design, molding compounds, and die attach materials have been changed, while the footprint of the packages remains the same.

See Application Note 826, Recommended Minimum Pad Patterns With Outline Drawing Access for Vishay Siliconix MOSFETs, (http://www.vishay.com/ppg?72286), for the basis of the pad design for a LITTLE FOOT SO-8 power MOSFET. In converting this recommended minimum pad to the pad set for a power MOSFET, designers must make two connections: an electrical connection and a thermal connection, to draw heat away from the package.

In the case of the SO-8 package, the thermal connections are very simple. Pins 5, 6, 7, and 8 are the drain of the MOSFET for a single MOSFET package and are connected together. In a dual package, pins 5 and 6 are one drain, and pins 7 and 8 are the other drain. For a small-signal device or integrated circuit, typical connections would be made with traces that are 0.020 inches wide. Since the drain pins serve the additional function of providing the thermal connection to the package, this level of connection is inadequate. The total cross section of the copper may be adequate to carry the current required for the application, but it presents a large thermal impedance. Also, heat spreads in a circular fashion from the heat source. In this case the drain pins are the heat sources when looking at heat spread on the PC board.

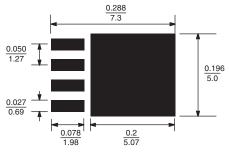


Figure 1. Single MOSFET SO-8 Pad Pattern With Copper Spreading

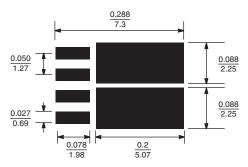


Figure 2. Dual MOSFET SO-8 Pad Pattern With Copper Spreading

The minimum recommended pad patterns for the single-MOSFET SO-8 with copper spreading (Figure 1) and dual-MOSFET SO-8 with copper spreading (Figure 2) show the starting point for utilizing the board area available for the heat-spreading copper. To create this pattern, a plane of copper overlies the drain pins. The copper plane connects the drain pins electrically, but more importantly provides planar copper to draw heat from the drain leads and start the process of spreading the heat so it can be dissipated into the ambient air. These patterns use all the available area underneath the body for this purpose.

Since surface-mounted packages are small, and reflow soldering is the most common way in which these are affixed to the PC board, "thermal" connections from the planar copper to the pads have not been used. Even if additional planar copper area is used, there should be no problems in the soldering process. The actual solder connections are defined by the solder mask openings. By combining the basic footprint with the copper plane on the drain pins, the solder mask generation occurs automatically.

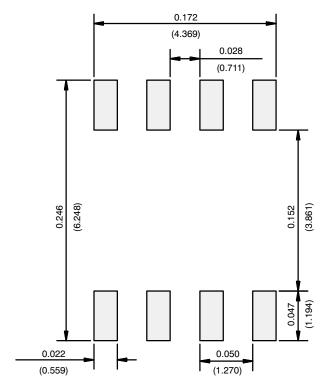
A final item to keep in mind is the width of the power traces. The absolute minimum power trace width must be determined by the amount of current it has to carry. For thermal reasons, this minimum width should be at least 0.020 inches. The use of wide traces connected to the drain plane provides a low impedance path for heat to move away from the device.

APPLICATION NOTE

Document Number: 70740 Revision: 18-Jun-07



#### **RECOMMENDED MINIMUM PADS FOR SO-8**



Recommended Minimum Pads Dimensions in Inches/(mm)

Return to Index

Ш



### **Legal Disclaimer Notice**

Vishay

#### **Disclaimer**

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

### **Material Category Policy**

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

Revision: 02-Oct-12 Document Number: 91000

# AMEYA360 Components Supply Platform

### **Authorized Distribution Brand:**

























#### Website:

Welcome to visit www.ameya360.com

#### Contact Us:

#### > Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

#### > Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

#### Customer Service :

Email service@ameya360.com

## Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com