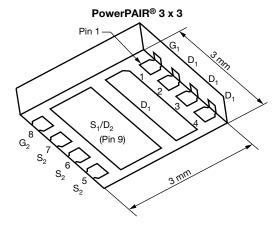
HALOGEN FREE



Vishay Siliconix

Dual N-Channel 30 V (D-S) MOSFETs

PRODUCT SUMMARY							
	V _{DS} (V)	$R_{DS(on)}\left(\Omega\right)$	I _D (A) ^a	Q _g (Typ.)			
Channel-1	30	0.0240 at V _{GS} = 10 V	11	3.5 nC			
Chamilei-1	30	0.0320 at $V_{GS} = 4.5 \text{ V}$	11	3.5 110			
Channel-2	30	0.0110 at V _{GS} = 10 V	28	6.8 nC			
Onamie-2	30	0.0165 at $V_{GS} = 4.5 \text{ V}$	28	0.0110			



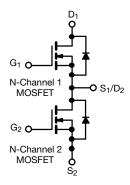
Ordering Information: SiZ300DT-T1-GE3 (Lead (Pb)-free and Halogen-free)

FEATURES

- PowerPAIR Optimizes High-Side and Low-Side MOSFETs for Synchronous Buck Converters
- TrenchFET® Power Mosfets
- 100 % R_{α} and UIS Tested
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Computing System Power
- Synchronous Buck Converter



Parameter		Symbol	Channel-1	Channel-2	Unit	
Drain-Source Voltage		V _{DS}	30		V	
Gate-Source Voltage		V _{GS}	± 20			
	T _C = 25 °C	,	11 ^a	28 ^a		
Continuous Drain Current (T _{.1} = 150 °C)	T _C = 70 °C		11 ^a	28 ^a	A	
Continuous Diam Current (1) = 130 C)	T _A = 25 °C	I _D	9.8 ^{b, c}	14.9 ^{b, c}		
	T _A = 70 °C		7.8 ^{b, c}	11.9 ^{b, c}		
Pulsed Drain Current (t = 300 μs)		I _{DM}	30	40		
Continuous Source Drain Diode Current	T _A = 25 °C	IS	11 ^a	26		
Continuous Source Diain Diode Current	T _A = 25 °C		3.2 ^{b, c}	3.8 ^{b, c}		
Avalanche Current		I _{AS}	12	15		
Single Pulse Avalanche Energy L = 0.1 mH		E _{AS}	7	11	mJ	
	T _C = 25 °C		16.7	31	w	
Maximum Power Dissination	T _C = 70 °C	P _D	10.7	20		
Maximum Power Dissipation	T _A = 25 °C	' D	3.7 ^{b, c}	4.2 ^{b, c}		
	T _A = 70 °C		2.4 ^{b, c}	2.7 ^{b, c}		
Operating Junction and Storage Temperature Rai	T _J , T _{stg}	- 55 to 150		°C		
Soldering Recommendations (Peak Temperature		260				

- a. Package limited.
- b. Surface mounted on 1" x 1" FR4 board.
- d. See solder profile (www.vishay.com/doc?73257). The PowerPAIR is a leadless package. The end of the lead terminal is exposed copper (not plated) as a result of the singulation process in manufacturing. A solder fillet at the exposed copper tip cannot be guaranteed and is not required to ensure adequate bottom side solder interconnection.
- e. Rework conditions: manual soldering with a soldering iron is not recommended for leadless components.

Document Number: 67715 S12-1361-Rev. D, 11-Jun-12 For technical questions, contact: pmostechsupport@vishav.com

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THERMAL RESISTANCE RATINGS							
			Chan	nel-1	Chan	nel-2	
Parameter		Symbol	Тур.	Max.	Тур.	Max.	Unit
Maximum Junction-to-Ambient ^{a, b}	t ≤ 10 s	R _{thJA}	27	34	24	30	°C/W
Maximum Junction-to-Case (Drain)	Steady State	R_{thJC}	6	7.5	3.2	4	O/ VV

Notes:

- a. Surface mounted on 1" x 1" FR4 board.
- b. Maximum under steady state conditions is 69 °C/W for channel-1 and 64 °C/W for channel-2.

Parameter	SPECIFICATIONS (T _J = 25 °C, unless otherwise noted)										
	Symbol	Test Conditions		Min.	Тур.	Max.	Unit				
Static	ı		1	T	1	T	1				
Drain-Source Breakdown Voltage	V _{DS}	$V_{GS} = 0, I_D = 250 \mu A$	Ch-1	30			V				
Ziani etailee Zieanaenni tenage	55	$V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$	Ch-2	30							
V _{DS} Temperature Coefficient	$\Delta V_{DS}/T_{.1}$	I _D = 250 μA	Ch-1		24		mV/°C				
- D3	_ D3 · 3	I _D = 250 μA	Ch-2		30						
V _{GS(th)} Temperature Coefficient	$\Delta V_{GS(th)}/T_J$	I _D = 250 μA	Ch-1		- 4.1						
· GS(III) remperature econoccin	- GS(iii) · G	I _D = 250 μA	Ch-2		- 5						
Gate Threshold Voltage	V _{GS(th)}	$V_{DS} = V_{GS}$, $I_D = 250 \mu A$	Ch-1	1		2.4	V				
Gate Theshold Voltage	VGS(th)	$V_{DS} = V_{GS}$, $I_D = 250 \mu A$	Ch-2	1		2.2	V				
Gate Source Leakage	loos	$V_{DS} = 0 \text{ V}, V_{GS} = \pm 20 \text{ V}$	Ch-1			± 100	nA				
date Source Leakage	I _{GSS}	VDS - 0 V, VGS - ± 20 V	Ch-2			± 100	ПА				
		$V_{DS} = 30 \text{ V}, V_{GS} = 0 \text{ V}$	Ch-1			1					
Zara Cata Valtaga Drain Current	l	$V_{DS} = 30 \text{ V}, V_{GS} = 0 \text{ V}$	Ch-2			1					
Zero Gate Voltage Drain Current	I _{DSS}	$V_{DS} = 30 \text{ V}, V_{GS} = 0 \text{ V}, T_{J} = 55 ^{\circ}\text{C}$	Ch-1			5	μΑ				
		$V_{DS} = 30 \text{ V}, V_{GS} = 0 \text{ V}, T_{J} = 55 ^{\circ}\text{C}$	Ch-2			5					
h		$V_{DS} \ge 5 \text{ V}, V_{GS} = 10 \text{ V}$	Ch-1	10							
On-State Drain Current ^D	I _{D(on)}	$V_{DS} \ge 5 \text{ V}, V_{GS} = 10 \text{ V}$	Ch-2	10			Α				
Drain-Source On-State Resistance ^b	R _{DS(on)}	V _{GS} = 10 V, I _D = 9.8 A	Ch-1		0.0200	0.0240	Ω				
		V _{GS} = 10 V, I _D = 15 A	Ch-2		0.0090	0.0110					
		V _{GS} = 4.5 V, I _D = 8.5 A	Ch-1		0.0265	0.0320					
		V _{GS} = 4.5 V, I _D = 12 A	Ch-2		0.0135	0.0165					
		V _{DS} = 15 V, I _D = 9.8 A	Ch-1		30		_				
Forward Transconductance ^b	9 _{fs}	V _{DS} = 15 V, I _D = 15 A	Ch-2		30		S				
Dynamic ^a		20 , 5	<u> </u>	L	1	l					
			Ch-1		400		1				
Input Capacitance	C _{iss}	Channel-1	Ch-2		730		- - pF				
		$V_{DS} = 15 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$	Ch-1		125						
Output Capacitance	C _{oss}	Channel-2	Ch-2		155						
		V _{DS} = 15 V, V _{GS} = 0 V, f = 1 MHz	Ch-1		25						
Reverse Transfer Capacitance	C_{rss}	VDS = 10 V, VGS = 0 V, 1 = 1 WH 12	Ch-2		65						
		$V_{DS} = 15 \text{ V}, V_{GS} = 10 \text{ V}, I_D = 9.8 \text{ A}$	Ch-1		7.4	12	-				
	_	V _{DS} = 15 V, V _{GS} = 10 V, I _D = 15 A	Ch-2		14.2	22					
Total Gate Charge	Q _g Q _{gs}	<u> </u>	Ch-1		3.5	5.3					
		Channel-1	Ch-2		6.8	11					
		$V_{DS} = 15 \text{ V}, V_{GS} = 4.5 \text{ V}, I_D = 9.8 \text{ A}$	Ch-1		1.5		nC				
Gate-Source Charge		Ohan a la	Ch-2		2.2						
		Channel-2 $V_{DS} = 15 \text{ V}, V_{GS} = 4.5 \text{ V}, I_{D} = 15 \text{ A}$	Ch-1		1.1						
		VDS - 10 V, VGS = 4.0 V, ID = 10 A			-	 	1				
Gate-Drain Charge	Q_{gd}		Ch-2		2.3						
Gate-Drain Charge Gate Resistance	R _q	f = 1 MHz	Ch-2 Ch-1	0.5	2.3	5.2	Ω				

Notes:

- a. Guaranteed by design, not subject to production testing.
- b. Pulse test; pulse width \leq 300 μ s, duty cycle \leq 2 %.



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Dynamic ^a t _{d(on)} Channel-1 V _{DD} = 15 V, R _L = 1.9 Ω I _D = 8 A, V _{GEN} = 4.5 V, R _g = 1 Ω Ch-1 Ch-2 Ch-2 Ch-2 Ch-2 Ch-2 Ch-1 Ch-1 Ch-2 So So Ch-1 Ch-1 Ch-2 So So Ch-1 Ch-1 Ch-2 So So Ch-1 Ch-1 Ch-2 Ch-2 Ch-2 Ch-2 Ch-2 Ch-2 Ch-2 Ch-2	Unit	Max.	Тур.	Min.		Test Conditions	Parameter		
Turn-On Delay Time t _d (on) Channel-1 V _{DD} = 15 V, R _L = 1.9 Ω (h-2) Ch-1 Ch-1 (h-2) 25 50 50 Rise Time t _r I _D ≅ 8 A, V _{GEN} = 4.5 V, R _g = 1 Ω Ch-1 (h-2) 45 90 60-2 80 160 160 Turn-Off Delay Time t _d (off) Channel-2 V _{DD} = 15 V, R _L = 1.5 Ω Ch-1 (h-1) 10 20 20 40 Turn-On Delay Time t _d (on) Channel-1 V _{DD} = 15 V, R _L = 1.9 Ω Ch-1 (h-1) 5 10 Ch-2 (h-1) 5 10 Ch-2 (h-1) 5 10 Ch-2 (h-1) 5 10 Ch-1 (h-1) 5 10 Ch-1 (h-1) 5 10 Ch-1 (h-1) 5 10 Ch-1 (h-1) 10 20 Ch-2 (h-2) 20 40 40 80 60 Ch-2 (h-1) 5 10 Ch-1 (h-1) 5 10 Ch-1 (h-1) 10 20 Ch-1 (h-1) 10 20 Ch-1 (h-1) 10 20 Ch-2 (h-2) 20 40 Ch-2 (h-2) 20 40 Ch-2 (h-2) 20 40 Ch-2 (h-2) Ch-2 (h-2) 20 40 Ch-2 (h-2) Ch-2 (h-2) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Dynamic^a</th>								Dynamic ^a	
Rise Time t _r V _{DD} = 15 V, R _{II} = 1.9 Ω Ch-1 45 90 Ch-2 80 160 Ch-2 Ch-2 80 160 Ch-2 Ch-2 80 160 Ch-2 Ch-2 Ch-2 20 40 Ch-2 Ch			_		_	Channel 4	t _{d(on)}	Turn-On Delay Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		50					-u(OII)	Tall Oli Bolay Timo	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			_		_		t _r	Rise Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	_		_		_		t _{d(off)}	Turn-Off Delay Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4		_			7	- (,		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		_	_		_	$I_D \cong 10 \text{ A}, V_{GEN} = 4.5 \text{ V}, R_g = 1 \Omega$	t _f	Fall Time	
	ns								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	_	_		_	Channel-1	t _{d(on)}	Turn-On Delay Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		_			$V_{DD} = 15 \text{ V}, R_{L} = 1.9 \Omega$			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	+	_	_		_	$I_D \cong 8 \text{ A}, V_{GEN} = 10 \text{ V}, R_g = 1 \Omega$	t _r	Rise Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		_			Ohamad 0			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		30			Ch-2		t _{d(off)}	Turn-Off Delay Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		15	7		Ch-1	7	1	Fall Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		20	10		Ch-2	B - , GEN - , g	Гf	Fall Time	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	•						s	Drain-Source Body Diode Characteristic	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		11			Ch-1	To = 25 °C	2	Continuous Source-Drain Diode Current	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A	26			Ch-2	.0 20 0	.5	Continuous Course Brain Blode Carrent	
					_		Ism	Pulse Diode Forward Current ^a	
							OIVI	T disc Blode Forward Current	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	V		0.84		Ch-1	5.5	Ven	Body Diode Voltage	
Body Diode Reverse Recovery Time t_{rr} Channel-1 Ch-2 20 40 Body Diode Reverse Recovery Charge Q_{rr} $I_F = 8 \text{ A}$, $dI/dt = 100 \text{ A/μs}$, $T_J = 25 \text{ °C}$ $Ch-1$ 9 20 Ch-2 14 30 Channel-2 Ch-1 9.5 Ch-2 I _F = 10 A, $dI/dt = 100 \text{ A/μs}$, $T_J = 25 \text{ °C}$ Ch-2 12.5		1.2	0.82		Ch-2	I _S = 10 A, V _{GS} = 0 V	OD		
Body Diode Reverse Recovery Charge Q_{rr} Channel-1 Ch-1 9 20 Reverse Recovery Fall Time t_a Channel-2 Ch-1 9.5 14 30 L _F = 10 A, dl/dt = 100 A/μs, T _J = 25 °C Ch-2 12.5 12.5 12.5	ns				Ch-1		trr	Body Diode Reverse Recovery Time	
Body Diode Reverse Recovery Charge Q_{rr} $I_F = 8$ A, dl/dt = 100 A/μs, $T_J = 25$ °C $Ch-1$ 9 20 Ch-2 14 30 Reverse Recovery Fall Time t_a Channel-2 Ch-1 9.5 $I_F = 10$ A, dl/dt = 100 A/μs, $T_J = 25$ °C Ch-2 12.5						Channel 1	11	Body Blode Heverse Hecovery Time	
Reverse Recovery Fall Time t_a Channel-2 $I_F = 10 \text{ A}$, $dI/dt = 100 \text{ A}/\mu \text{s}$, $T_J = 25 \text{ °C}$ Ch-2 12.5	nC				_		Q_{rr}	Body Diode Reverse Recovery Charge	
Reverse Recovery Fall Time t_a $I_F = 10 \text{ A}$, $dI/dt = 100 \text{ A}/\mu \text{s}$, $T_J = 25 \text{ °C}$ $Ch-2$ 12.5		30				1	"		
i _f = 107t, αι/αt = 1007τμο, 1 _j = 20 0	4						ta	Reverse Recovery Fall Time	
	ns					$I_F = 10 \text{ A}, \text{ dI/dt} = 100 \text{ A/}\mu\text{s}, T_J = 25 °\text{C}$			
Reverse Recovery Rise Time	-						t _b	Reverse Recovery Rise Time	

Notes:

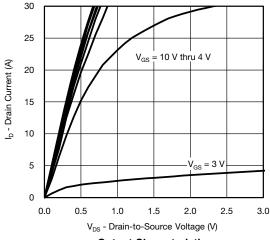
Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure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

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

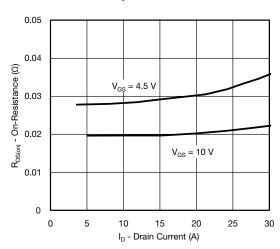
b. Pulse test; pulse width \leq 300 μ s, duty cycle \leq 2 %.

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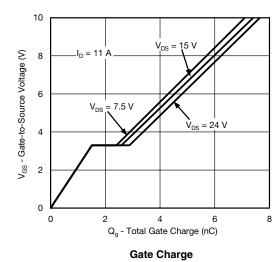
CHANNEL-1 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

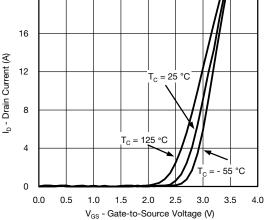


Output Characteristics

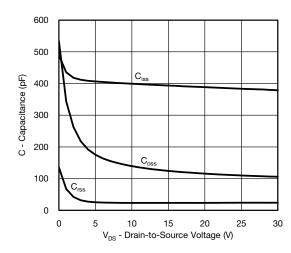


On-Resistance vs. Drain Current

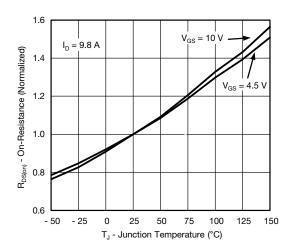




Transfer Characteristics



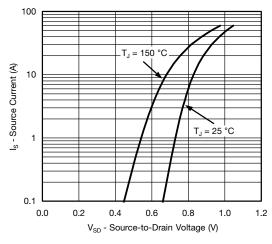
Capacitance

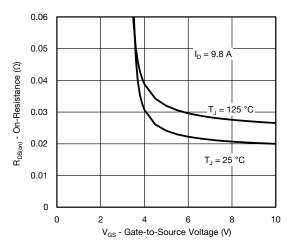


On-Resistance vs. Junction Temperature

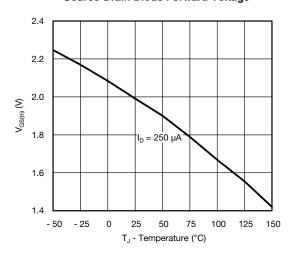


CHANNEL-1 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

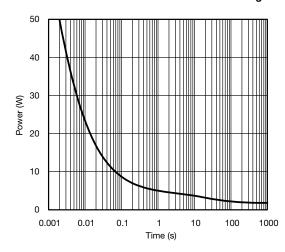




Source-Drain Diode Forward Voltage

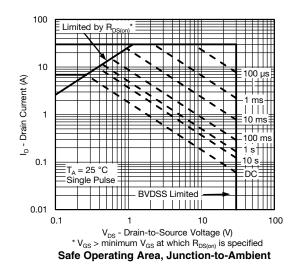


On-Resistance vs. Gate-to-Source Voltage



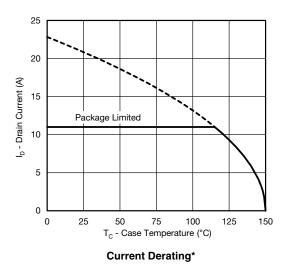
Threshold Voltage

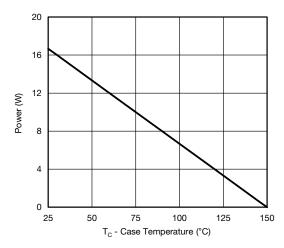
Single Pulse Power



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CHANNEL-1 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



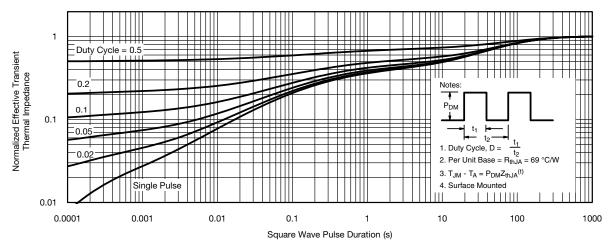


Power, Junction-to-Case

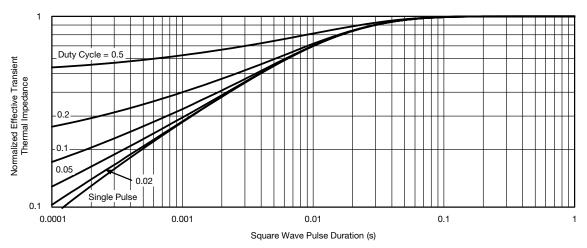
^{*} The power dissipation P_D is based on $T_{J(max)}$ = 150 °C, using junction-to-case thermal resistance, and is more useful in settling the upper dissipation limit for cases where additional heatsinking is used. It is used to determine the current rating, when this rating falls below the package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



CHANNEL-1 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



Normalized Thermal Transient Impedance, Junction-to-Ambient

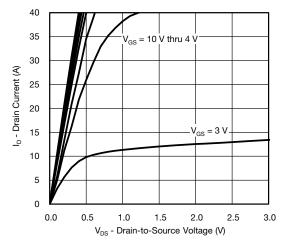


Normalized Thermal Transient Impedance, Junction-to-Case

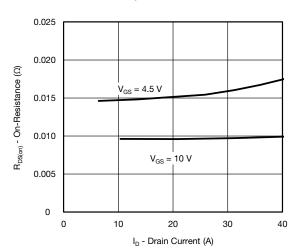
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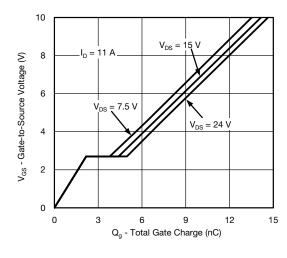
CHANNEL-2 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



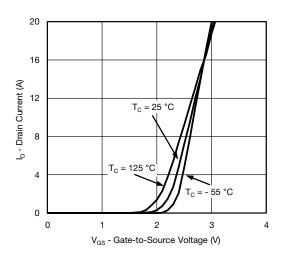
Output Characteristics



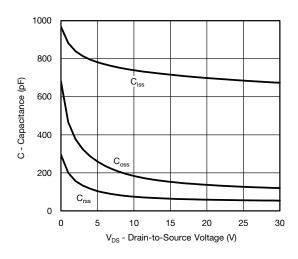
On-Resistance vs. Drain Current



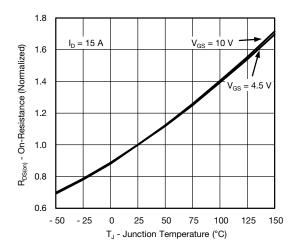
Gate Charge



Transfer Characteristics



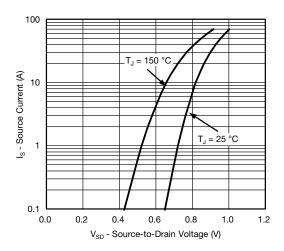
Capacitance

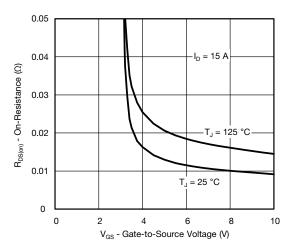


On-Resistance vs. Junction Temperature

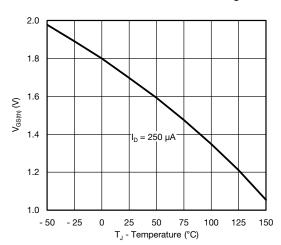


CHANNEL-2 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

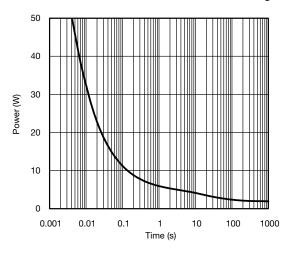




Source-Drain Diode Forward Voltage

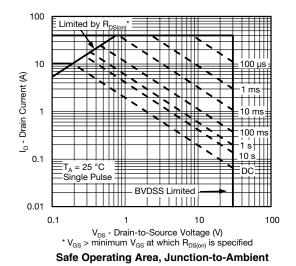


On-Resistance vs. Gate-to-Source Voltage



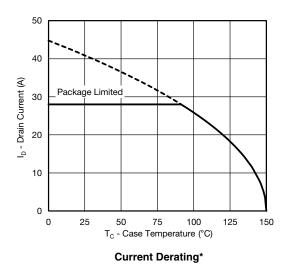
Threshold Voltage

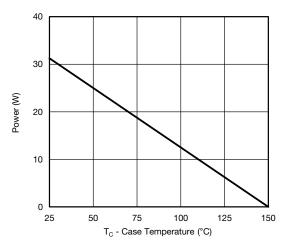




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CHANNEL-2 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



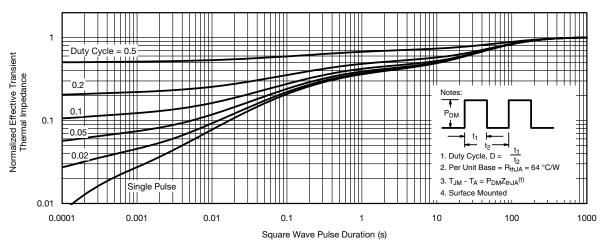


Power, Junction-to-Case

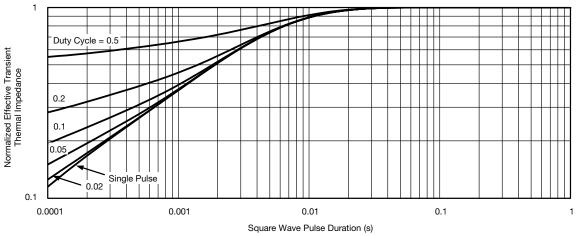
^{*} The power dissipation P_D is based on $T_{J(max)}$ = 150 °C, using junction-to-case thermal resistance, and is more useful in settling the upper dissipation limit for cases where additional heatsinking is used. It is used to determine the current rating, when this rating falls below the package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



CHANNEL-2 TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

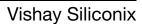


Normalized Thermal Transient Impedance, Junction-to-Ambient



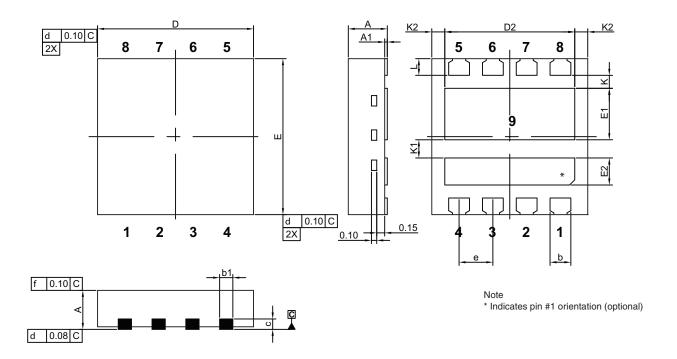
Normalized Thermal Transient Impedance, Junction-to-Case

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 www.vishay.com/ppg?67715.





PowerPAIR® 3 x 3 Case Outline

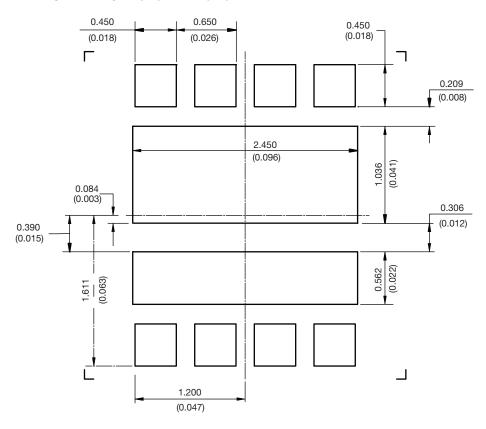


		MILLIMETERS			INCHES	
DIM.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
Α	0.70	0.75	0.80	0.028	0.030	0.031
A1	0.00		0.05	0.000		0.002
b	0.35	0.40	0.45	0.014	0.016	0.018
b1	0.20	0.25	0.38	0.008	0.010	0.015
С	0.18	0.20	0.23	0.007	0.008	0.009
D	2.90	3.00	3.10	0.114	0.118	0.122
D2	2.35	2.40	2.45	0.093	0.094	0.096
E	2.90	3.00	3.10	0.114	0.118	0.122
E1	0.94	0.99	1.04	0.037	0.039	0.041
E2	0.47	0.52	0.57	0.019	0.020	0.022
е		0.65 BSC			0.026 BSC	
K		0.25 typ.			0.010 typ.	
K1	0.35 typ. 0.014 typ.					
K2	0.30 typ. 0.012 typ.					
L	0.27	0.32	0.37	0.011	0.013	0.015

DWG: 5998



RECOMMENDED MINIMUM PAD FOR PowerPAIR® 3 x 3



Recommended PAD for PowerPAIR 3 x 3

Dimensions in millimeters (inches)

Keep-Out 3.5 mm x 3.5 mm for non terminating traces



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