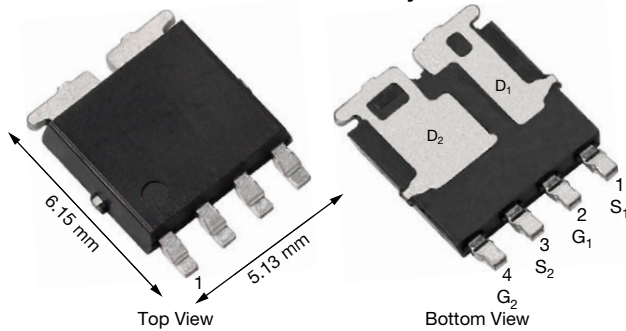


Automotive Dual N-Channel 40 V (D-S) 175 °C MOSFETs

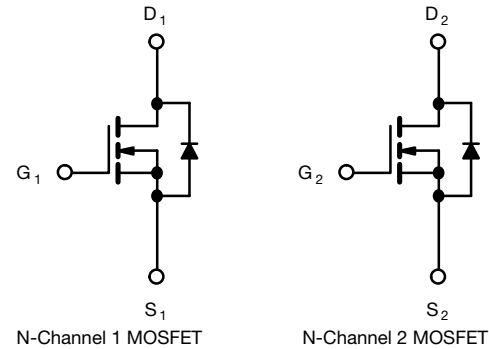
PowerPAK® SO-8L Dual Asymmetric

FEATURES

- TrenchFET® power MOSFET
- AEC-Q101 qualified
- 100 % R_g and UIS tested
- Optimized for synchronous buck applications
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912

 AUTOMOTIVE
GRADE

RoHS
COMPLIANT
HALOGEN
FREE

| PRODUCT SUMMARY | | |
|--|---------------------------|-------------|
| | N-CHANNEL 1 | N-CHANNEL 2 |
| V _{DS} (V) | 40 | 40 |
| R _{DS(on)} (Ω) at V _{GS} = 10 V | 0.00940 | 0.00390 |
| R _{DS(on)} (Ω) at V _{GS} = 4.5 V | 0.01173 | 0.00480 |
| I _D (A) | 20 | 60 |
| Configuration | Dual | |
| Package | PowerPAK SO-8L asymmetric | |



| ABSOLUTE MAXIMUM RATINGS (T _C = 25 °C, unless otherwise noted) | | | | |
|---|-----------------------------------|-------------------------|-----------------|-----------------|
| PARAMETER | SYMBOL | N-CHANNEL 1 | N-CHANNEL 2 | UNIT |
| Drain-source voltage | V _{DS} | 40 | 40 | V |
| Gate-source voltage | V _{GS} | ± 20 | | |
| Continuous drain current | I _D | T _C = 25 °C | 20 ^a | 60 ^a |
| | | T _C = 125 °C | 20 ^a | 46 |
| Continuous source current (diode conduction) | I _S | 20 ^a | 44 | A |
| Pulsed drain current ^b | I _{DM} | 80 | 220 | |
| Single pulse avalanche current | I _{AS} | L = 0.1 mH | 18 | 29 |
| Single pulse avalanche energy | | | E _{AS} | 16 |
| Maximum power dissipation ^b | P _D | T _C = 25 °C | 27 | 48 |
| | | T _C = 125 °C | 9 | 16 |
| Operating junction and storage temperature range | T _J , T _{stg} | -55 to +175 | | °C |
| Soldering recommendations (peak temperature) ^{d, e} | | 260 | | |

| THERMAL RESISTANCE RATINGS | | | | |
|----------------------------|-------------------|-------------|-------------|------|
| PARAMETER | SYMBOL | N-CHANNEL 1 | N-CHANNEL 2 | UNIT |
| Junction-to-ambient | R _{thJA} | 85 | 85 | °C/W |
| Junction-to-case (drain) | R _{thJC} | 5.5 | 3.1 | |

Notes

- Package limited
- Pulse test; pulse width ≤ 300 μs, duty cycle ≤ 2 %
- When mounted on 1" square PCB (FR4 material)
- See solder profile (www.vishay.com/doc?73257). The PowerPAK SO-8L 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
- Rework conditions: manual soldering with a soldering iron is not recommended for leadless components



| SPECIFICATIONS ($T_C = 25\text{ }^\circ\text{C}$, unless otherwise noted) | | | | | | | | |
|--|--------------|---|---|--------|------|---------|-----------|---------------|
| PARAMETER | SYMBOL | TEST CONDITIONS | | | MIN. | TYP. | MAX. | UNIT |
| Static | | | | | | | | |
| Drain-source breakdown voltage | V_{DS} | $V_{GS} = 0\text{ V}, I_D = 250\text{ }\mu\text{A}$ | | N-Ch 1 | 40 | - | - | V |
| | | $V_{GS} = 0\text{ V}, I_D = 250\text{ }\mu\text{A}$ | | N-Ch 2 | 40 | - | - | |
| Gate-source threshold voltage | $V_{GS(th)}$ | $V_{DS} = V_{GS}, I_D = 250\text{ }\mu\text{A}$ | | N-Ch 1 | 1.3 | 1.8 | 2.3 | |
| | | $V_{DS} = V_{GS}, I_D = 250\text{ }\mu\text{A}$ | | N-Ch 2 | 1.4 | 1.9 | 2.4 | |
| Gate-source leakage | I_{GSS} | $V_{DS} = 0\text{ V}, V_{GS} = \pm 20\text{ V}$ | | N-Ch 1 | - | - | ± 100 | nA |
| | | | | N-Ch 2 | - | - | ± 100 | |
| Zero gate voltage drain current | I_{DSS} | $V_{GS} = 0\text{ V}$ | $V_{DS} = 40\text{ V}$ | N-Ch 1 | - | - | 1 | μA |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 40\text{ V}$ | N-Ch 2 | - | - | 1 | |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 40\text{ V}, T_J = 125\text{ }^\circ\text{C}$ | N-Ch 1 | - | - | 50 | |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 40\text{ V}, T_J = 125\text{ }^\circ\text{C}$ | N-Ch 2 | - | - | 50 | |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 40\text{ V}, T_J = 175\text{ }^\circ\text{C}$ | N-Ch 1 | - | - | 250 | |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 40\text{ V}, T_J = 175\text{ }^\circ\text{C}$ | N-Ch 2 | - | - | 300 | |
| On-state drain current ^a | $I_{D(on)}$ | $V_{GS} = 10\text{ V}$ | $V_{DS} \geq 5\text{ V}$ | N-Ch 1 | 10 | - | - | A |
| | | $V_{GS} = 10\text{ V}$ | $V_{DS} \geq 5\text{ V}$ | N-Ch 2 | 20 | - | - | |
| Drain-source on-state resistance ^a | $R_{DS(on)}$ | $V_{GS} = 10\text{ V}$ | $I_D = 6\text{ A}$ | N-Ch 1 | - | 0.00770 | 0.00940 | Ω |
| | | $V_{GS} = 10\text{ V}$ | $I_D = 10\text{ A}$ | N-Ch 2 | - | 0.00320 | 0.00390 | |
| | | $V_{GS} = 10\text{ V}$ | $I_D = 6\text{ A}, T_J = 125\text{ }^\circ\text{C}$ | N-Ch 1 | - | - | 0.01370 | |
| | | $V_{GS} = 10\text{ V}$ | $I_D = 10\text{ A}, T_J = 125\text{ }^\circ\text{C}$ | N-Ch 2 | - | - | 0.00570 | |
| | | $V_{GS} = 10\text{ V}$ | $I_D = 6\text{ A}, T_J = 175\text{ }^\circ\text{C}$ | N-Ch 1 | - | - | 0.01600 | |
| | | $V_{GS} = 10\text{ V}$ | $I_D = 10\text{ A}, T_J = 175\text{ }^\circ\text{C}$ | N-Ch 2 | - | - | 0.00670 | |
| | | $V_{GS} = 4.5\text{ V}$ | $I_D = 4\text{ A}$ | N-Ch 1 | - | 0.00970 | 0.01173 | |
| | | $V_{GS} = 4.5\text{ V}$ | $I_D = 8\text{ A}$ | N-Ch 2 | - | 0.00400 | 0.00480 | |
| Forward transconductance ^b | g_{fs} | $V_{DS} = 15\text{ V}, I_D = 6\text{ A}$ | | N-Ch 1 | - | 32 | - | S |
| | | $V_{DS} = 15\text{ V}, I_D = 10\text{ A}$ | | N-Ch 2 | - | 51 | - | |
| Dynamic ^b | | | | | | | | |
| Input capacitance | C_{iss} | $V_{GS} = 0\text{ V}$ | $V_{DS} = 25\text{ V}, f = 1\text{ MHz}$ | N-Ch 1 | - | 1197 | 1700 | pF |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 25\text{ V}, f = 1\text{ MHz}$ | N-Ch 2 | - | 2839 | 3900 | |
| Output capacitance | C_{oss} | $V_{GS} = 0\text{ V}$ | $V_{DS} = 25\text{ V}, f = 1\text{ MHz}$ | N-Ch 1 | - | 331 | 500 | |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 25\text{ V}, f = 1\text{ MHz}$ | N-Ch 2 | - | 888 | 1250 | |
| Reverse transfer capacitance | C_{rss} | $V_{GS} = 0\text{ V}$ | $V_{DS} = 25\text{ V}, f = 1\text{ MHz}$ | N-Ch 1 | - | 31 | 50 | |
| | | $V_{GS} = 0\text{ V}$ | $V_{DS} = 25\text{ V}, f = 1\text{ MHz}$ | N-Ch 2 | - | 27 | 40 | |
| Total gate charge ^c | Q_g | $V_{GS} = 10\text{ V}$ | $V_{DS} = 20\text{ V}, I_D = 1\text{ A}$ | N-Ch 1 | - | 22 | 33 | nC |
| | | $V_{GS} = 10\text{ V}$ | $V_{DS} = 20\text{ V}, I_D = 1\text{ A}$ | N-Ch 2 | - | 48.2 | 75 | |
| Gate-source charge ^c | Q_{gs} | $V_{GS} = 10\text{ V}$ | $V_{DS} = 20\text{ V}, I_D = 1\text{ A}$ | N-Ch 1 | - | 3.5 | - | |
| | | $V_{GS} = 10\text{ V}$ | $V_{DS} = 20\text{ V}, I_D = 1\text{ A}$ | N-Ch 2 | - | 7.1 | - | |
| Gate-drain charge ^c | Q_{gd} | $V_{GS} = 10\text{ V}$ | $V_{DS} = 20\text{ V}, I_D = 1\text{ A}$ | N-Ch 1 | - | 3.9 | - | |
| | | $V_{GS} = 10\text{ V}$ | $V_{DS} = 20\text{ V}, I_D = 1\text{ A}$ | N-Ch 2 | - | 8 | - | |
| Gate resistance | R_g | $f = 1\text{ MHz}$ | | N-Ch 1 | 1.74 | 3.49 | 5.30 | Ω |
| | | | | N-Ch 2 | 0.55 | 1.10 | 1.65 | |



| SPECIFICATIONS (T _C = 25 °C, unless otherwise noted) | | | | | | | |
|--|----------------------|---|--------|------|------|------|----|
| PARAMETER | SYMBOL | TEST CONDITIONS | MIN. | TYP. | MAX. | UNIT | |
| Dynamic ^b | | | | | | | |
| Turn-on delay time ^c | t _{d(on)} | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 1 | - | 10 | 20 | ns |
| | | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 2 | - | 14 | 25 | |
| Rise time ^c | t _r | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 1 | - | 4 | 10 | |
| | | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 2 | - | 5 | 10 | |
| Turn-off delay time ^c | t _{d(off)} | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 1 | - | 24 | 50 | |
| | | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 2 | - | 35 | 55 | |
| Fall time ^c | t _f | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 1 | - | 25 | 50 | |
| | | V _{DD} = 20 V, R _L = 20 Ω, I _D ≅ 1 A, V _{GEN} = 10 V, R _g = 1 Ω | N-Ch 2 | - | 57 | 90 | |
| Source-Drain Diode Ratings and Characteristics ^b | | | | | | | |
| Pulsed current ^a | I _{SM} | | N-Ch 1 | - | - | 80 | A |
| | | | N-Ch 2 | - | - | 220 | |
| Forward voltage | V _{SD} | I _F = 6 A, V _{GS} = 0 V | N-Ch 1 | - | 0.77 | 1.2 | V |
| | | I _F = 10 A, V _{GS} = 0 V | N-Ch 2 | - | 0.76 | 1.2 | |
| Body diode reverse recovery time | t _{rr} | I _F = 1 A, di/dt = 100 A/μs | N-Ch 1 | - | 28 | 60 | ns |
| | | I _F = 1 A, di/dt = 100 A/μs | N-Ch 2 | - | 39 | 80 | |
| Body diode reverse recovery charge | Q _{rr} | I _F = 1 A, di/dt = 100 A/μs | N-Ch 1 | - | 17 | 35 | nC |
| | | I _F = 1 A, di/dt = 100 A/μs | N-Ch 2 | - | 46 | 95 | |
| Reverse recovery fall time | t _a | I _F = 1 A, di/dt = 100 A/μs | N-Ch 1 | - | 14 | - | ns |
| | | I _F = 1 A, di/dt = 100 A/μs | N-Ch 2 | - | 23 | - | |
| Reverse recovery rise time | t _b | I _F = 1 A, di/dt = 100 A/μs | N-Ch 1 | - | 14 | - | ns |
| | | I _F = 1 A, di/dt = 100 A/μs | N-Ch 2 | - | 16 | - | |
| Body diode peak reverse recovery current | I _{RM(REC)} | I _F = 1 A, di/dt = 100 A/μs | N-Ch 1 | - | -1.1 | - | A |
| | | I _F = 1 A, di/dt = 100 A/μs | N-Ch 2 | - | -2.1 | - | |

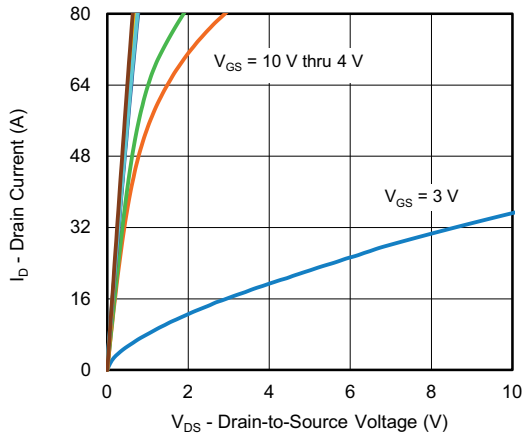
Notes

- a. Pulse test; pulse width ≤ 300 μs, duty cycle ≤ 2 %
- b. Guaranteed by design, not subject to production testing
- c. Independent of operating temperature

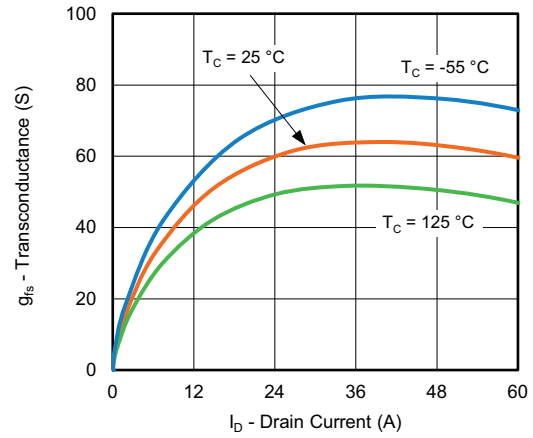
Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure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



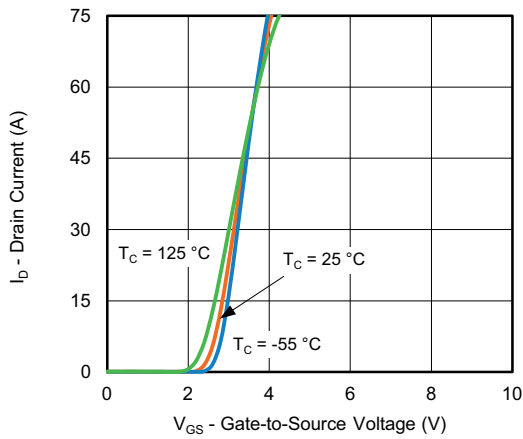
N-CHANNEL 1 TYPICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted)



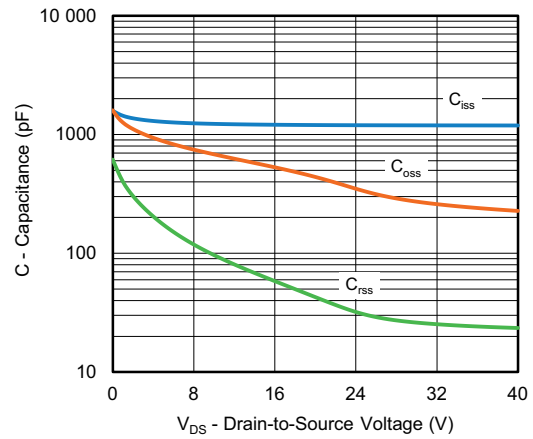
Output Characteristics



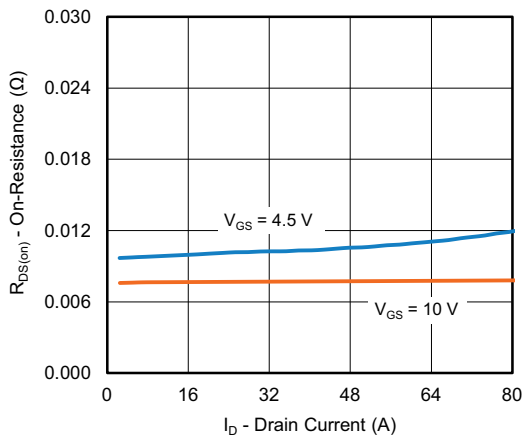
Transconductance



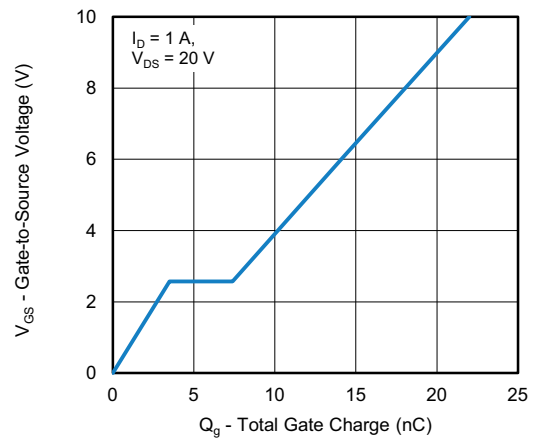
Transfer Characteristics



Capacitance



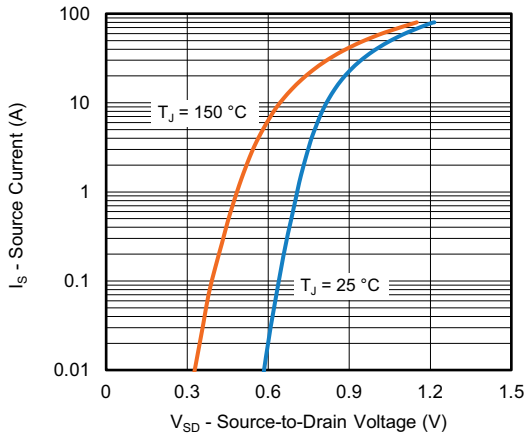
On-Resistance vs. Drain Current



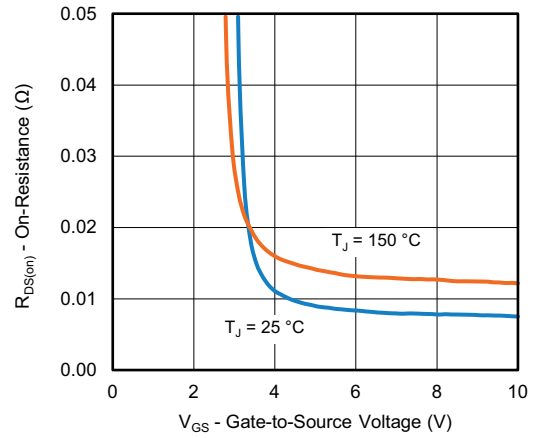
Gate Charge



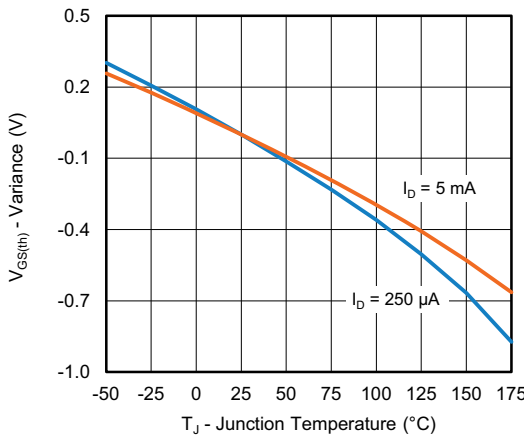
N-CHANNEL 1 TYPICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted)



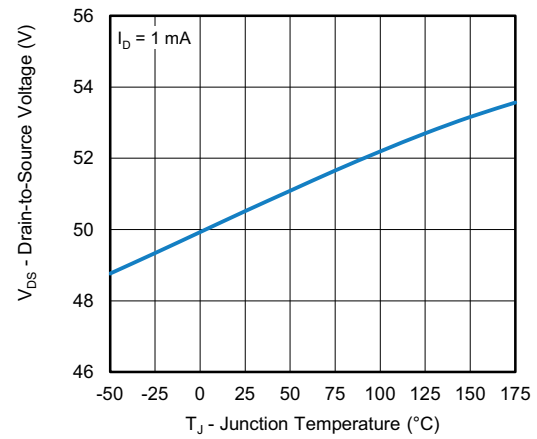
Source Drain Diode Forward Voltage



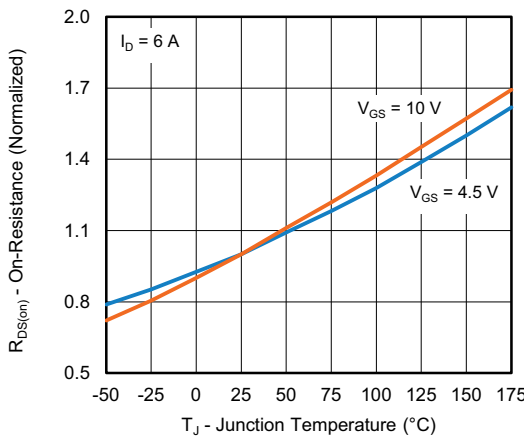
On-Resistance vs. Gate-to-Source Voltage



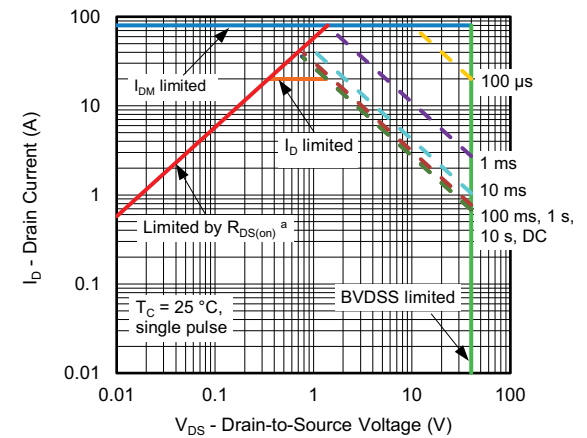
Threshold Voltage



Drain Source Breakdown vs. Junction Temperature



On-Resistance vs. Junction Temperature

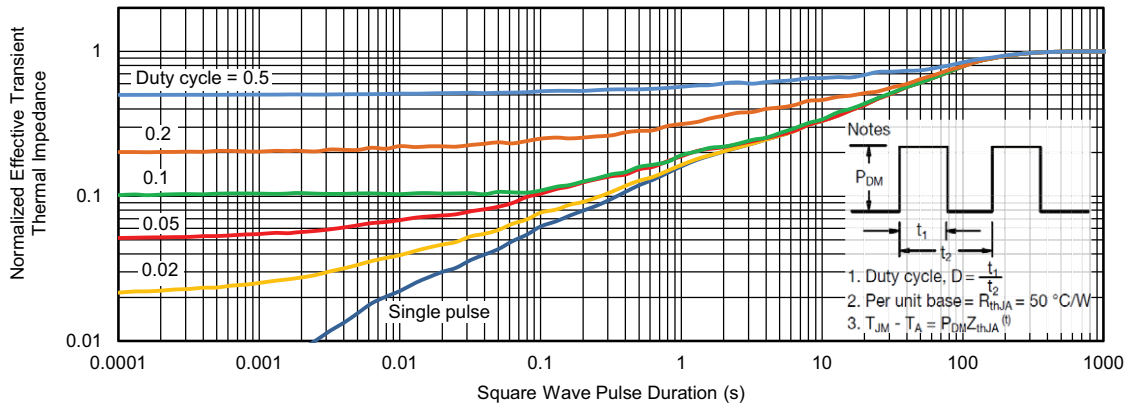


Safe Operating Area

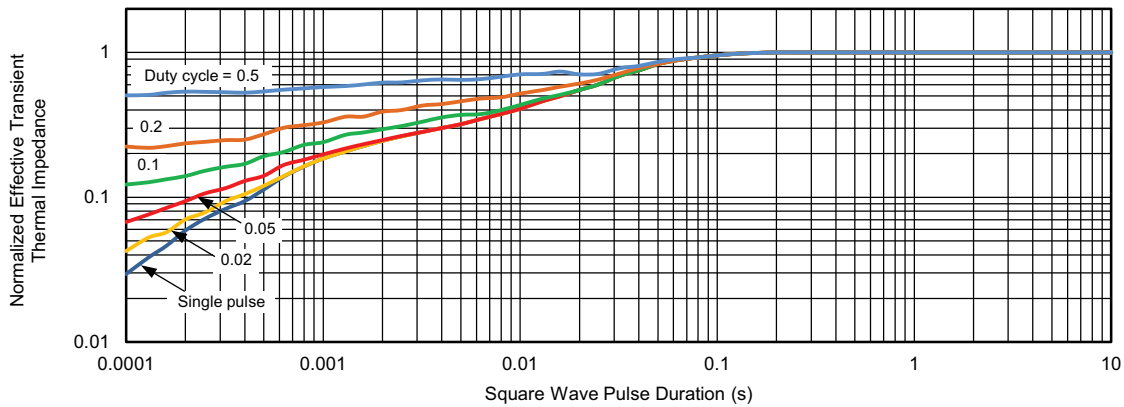
Note

a. $V_{GS} >$ minimum V_{GS} at which $R_{DS(on)}$ is specified

N-CHANNEL 1 TYPICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted)



Normalized Thermal Transient Impedance, Junction-to-Ambient



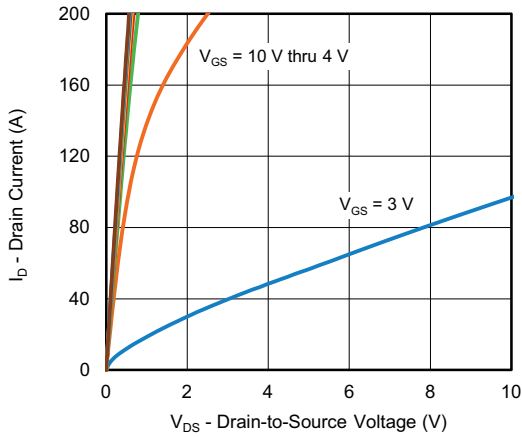
Normalized Thermal Transient Impedance, Junction-to-Case

Note

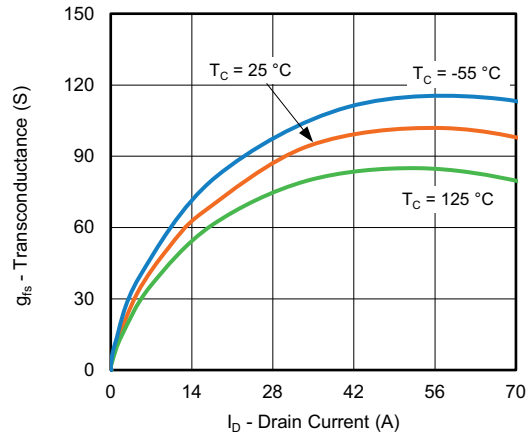
- The characteristics shown in the graph:
 - Normalized Transient Thermal Impedance Junction-to-Ambient ($25\text{ }^\circ\text{C}$) is given for general guidelines only to enable the user to get a “ball park” indication of part capabilities. The data are extracted from single pulse transient thermal impedance characteristics which are developed from empirical measurements. The latter is valid for the part mounted on printed circuit board - FR4, size 1" x 1" x 0.062", double sided with 2 oz. copper, 100 % on both sides. The part capabilities can widely vary depending on actual application parameters and operating conditions



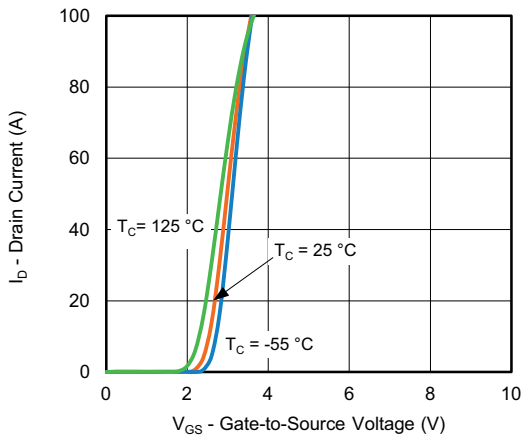
N-CHANNEL 2 TYPICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted)



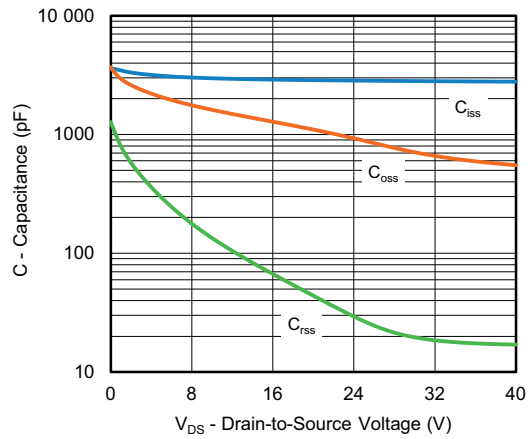
Output Characteristics



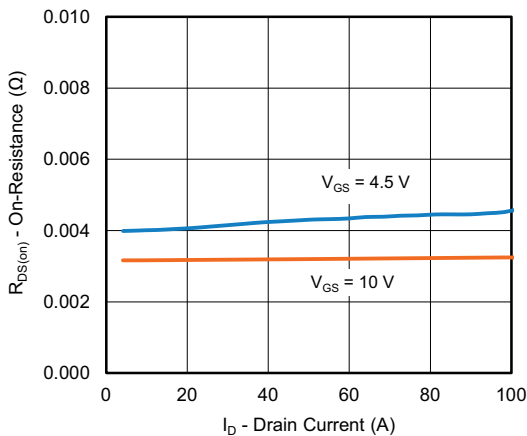
Transconductance



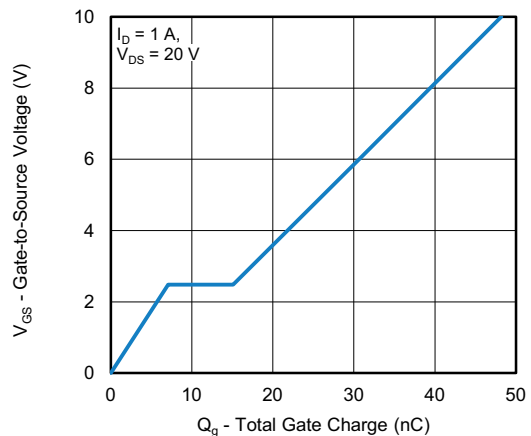
Transfer Characteristics



Capacitance

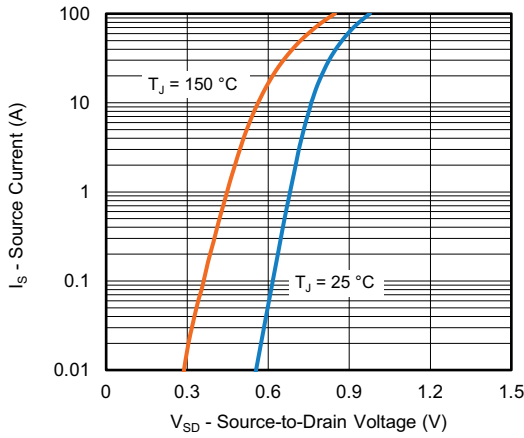


On-Resistance vs. Drain Current

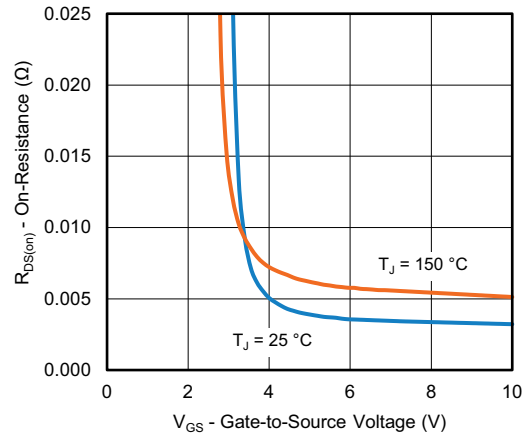


Gate Charge

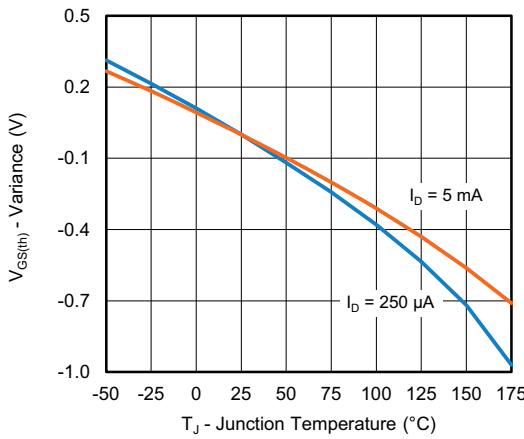
N-CHANNEL 2 TYPICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted)



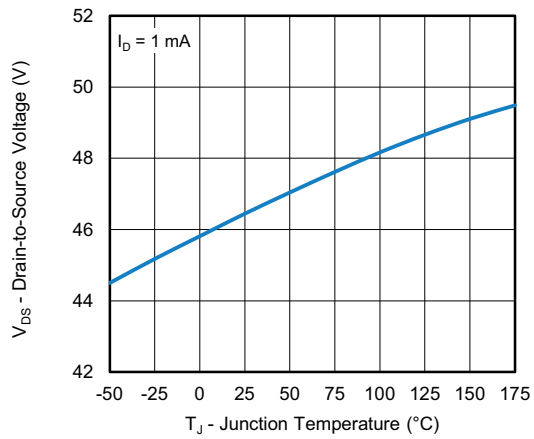
Source Drain Diode Forward Voltage



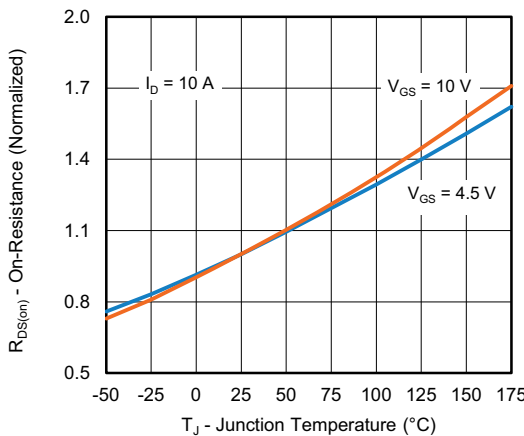
On-Resistance vs. Gate-to-Source Voltage



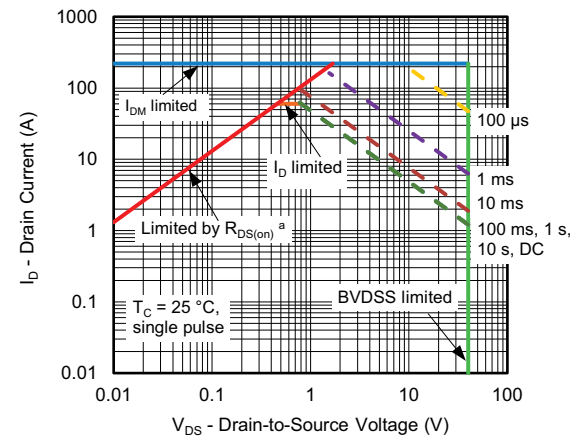
Threshold Voltage



Drain Source Breakdown vs. Junction Temperature



On-Resistance vs. Junction Temperature

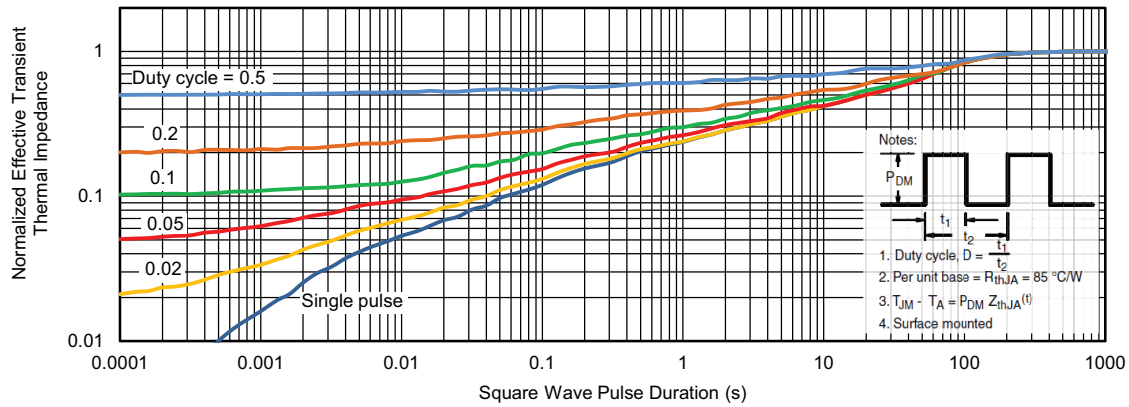


Safe Operating Area

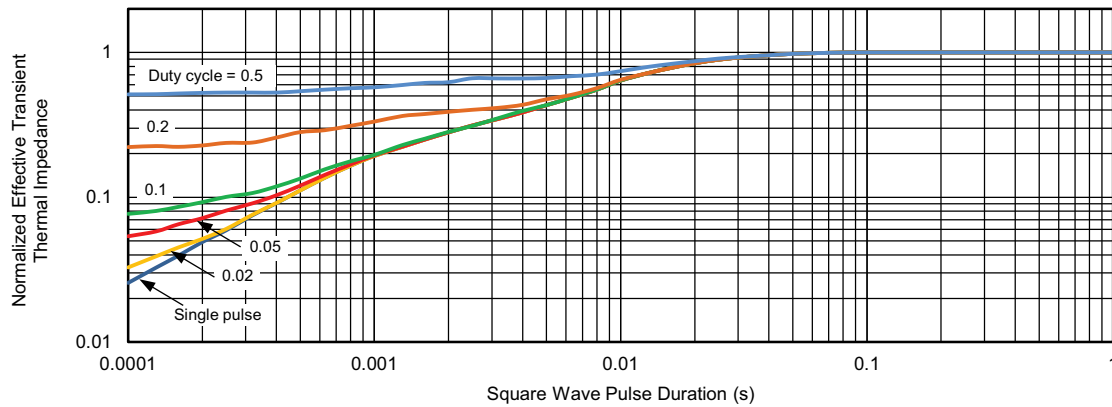
Note

a. $V_{GS} >$ minimum V_{GS} at which $R_{DS(on)}$ is specified

N-CHANNEL 2 TYPICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted)



Normalized Thermal Transient Impedance, Junction-to-Ambient



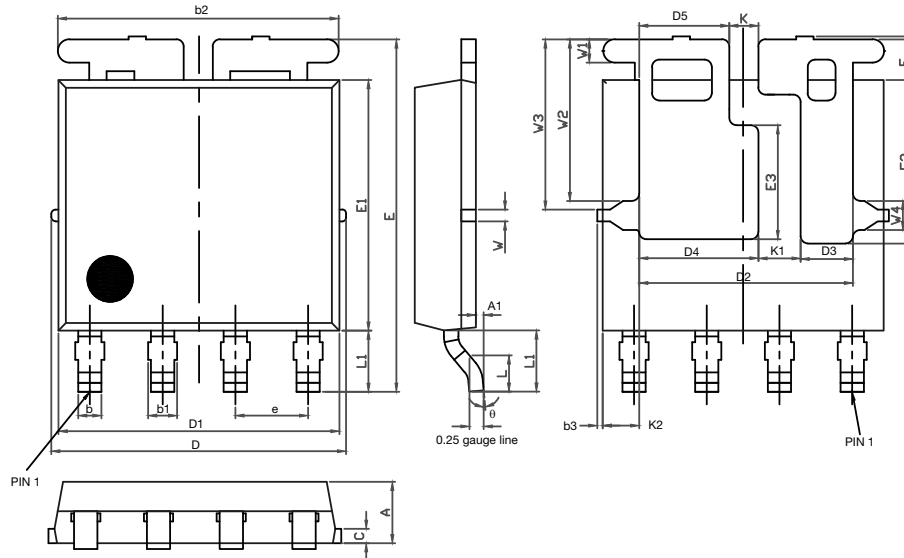
Normalized Thermal Transient Impedance, Junction-to-Case

Note

- The characteristics shown in the graph:
 - Normalized Transient Thermal Impedance Junction-to-Ambient ($25\text{ }^\circ\text{C}$) is given for general guidelines only to enable the user to get a “ball park” indication of part capabilities. The data are extracted from single pulse transient thermal impedance characteristics which are developed from empirical measurements. The latter is valid for the part mounted on printed circuit board - FR4, size 1" x 1" x 0.062", double sided with 2 oz. copper, 100 % on both sides. The part capabilities can widely vary depending on actual application parameters and operating conditions

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?77836.

PowerPAK[®] SO-8L Assymmetric Case Outline



| DIM. | MILLIMETERS | | | INCHES | | |
|------|-------------|------|------|--------|-------|-------|
| | MIN. | NOM. | MAX. | MIN. | NOM. | MAX. |
| A | 1.00 | 1.07 | 1.14 | 0.039 | 0.042 | 0.045 |
| A1 | 0.00 | 0.06 | 0.13 | 0.000 | 0.003 | 0.005 |
| b | 0.33 | 0.41 | 0.48 | 0.013 | 0.016 | 0.019 |
| b1 | 0.44 | 0.51 | 0.58 | 0.017 | 0.020 | 0.023 |
| b2 | 4.80 | 4.90 | 5.00 | 0.189 | 0.193 | 0.197 |
| b3 | 0.04 | 0.12 | 0.20 | 0.002 | 0.005 | 0.008 |
| c | 0.20 | 0.25 | 0.30 | 0.008 | 0.010 | 0.012 |
| D | 5.00 | 5.13 | 5.25 | 0.197 | 0.202 | 0.207 |
| D1 | 4.80 | 4.90 | 5.00 | 0.189 | 0.193 | 0.197 |
| D2 | 3.63 | 3.73 | 3.83 | 0.143 | 0.147 | 0.151 |
| D3 | 0.81 | 0.91 | 1.01 | 0.032 | 0.036 | 0.040 |
| D4 | 1.98 | 2.08 | 2.18 | 0.078 | 0.082 | 0.086 |
| D5 | 1.47 | 1.57 | 1.67 | 0.058 | 0.062 | 0.066 |
| e | 1.20 | 1.27 | 1.34 | 0.047 | 0.050 | 0.053 |
| E | 6.05 | 6.15 | 6.25 | 0.238 | 0.242 | 0.246 |
| E1 | 4.27 | 4.37 | 4.47 | 0.168 | 0.172 | 0.176 |
| E2 | 2.75 | 2.85 | 2.95 | 0.108 | 0.112 | 0.116 |
| E3 | 1.89 | 1.99 | 2.09 | 0.074 | 0.078 | 0.082 |
| F | 0.05 | 0.12 | 0.19 | 0.002 | 0.005 | 0.007 |
| L | 0.62 | 0.72 | 0.82 | 0.024 | 0.028 | 0.032 |
| L1 | 0.92 | 1.07 | 1.22 | 0.036 | 0.042 | 0.048 |
| K | 0.41 | 0.51 | 0.61 | 0.016 | 0.020 | 0.024 |
| K1 | 0.64 | 0.74 | 0.84 | 0.025 | 0.029 | 0.033 |
| K2 | 0.54 | 0.64 | 0.74 | 0.021 | 0.025 | 0.029 |
| W | 0.13 | 0.23 | 0.33 | 0.005 | 0.009 | 0.013 |
| W1 | 0.31 | 0.41 | 0.51 | 0.012 | 0.016 | 0.020 |
| W2 | 2.72 | 2.82 | 2.92 | 0.107 | 0.111 | 0.115 |
| W3 | 2.86 | 2.96 | 3.06 | 0.113 | 0.117 | 0.120 |
| W4 | 0.41 | 0.51 | 0.61 | 0.016 | 0.020 | 0.024 |
| θ | 5° | 10° | 12° | 5° | 10° | 12° |

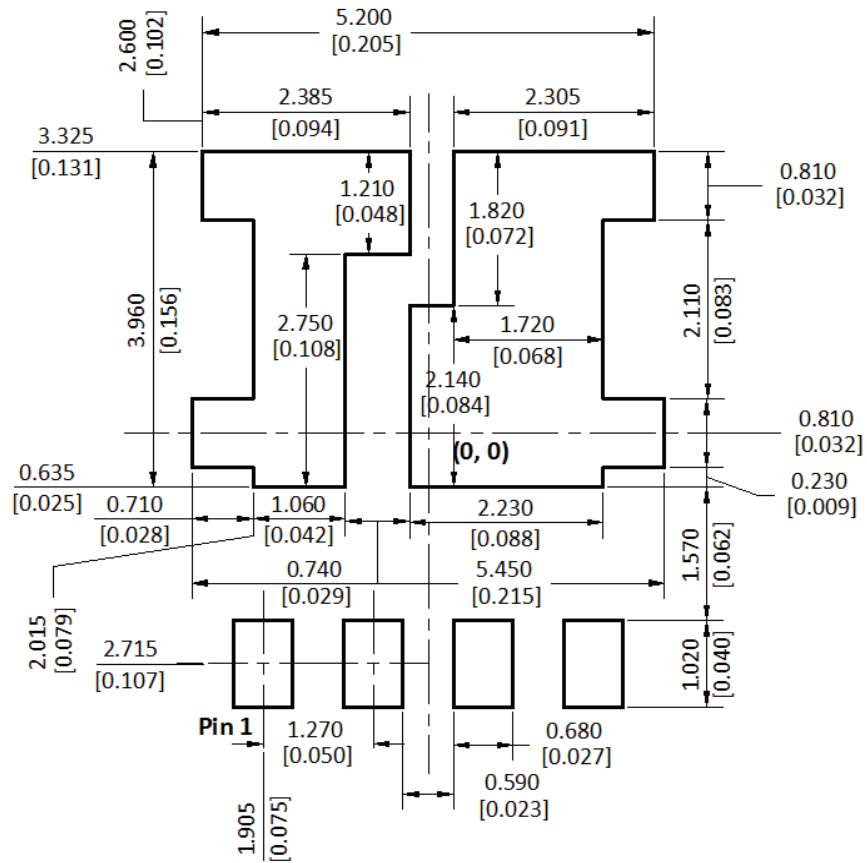
DWG: 6009

Note

- Millimeters will govern



RECOMMENDED MINIMUM PADS FOR PowerPAK® SO-8L DUAL ASYMMETRIC



Recommended Minimum Pads
Dimensions in mm [inches]



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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