

N-Channel 30 V (D-S) MOSFET

| PRODUCT SUMMARY | | | | | | | | | |
|---------------------|----------------------------------|---------------------------------|-----------------------|--|--|--|--|--|--|
| V _{DS} (V) | $R_{DS(on)}\left(\Omega\right)$ | I _D (A) ^a | Q _g (Typ.) | | | | | | |
| | 0.042 at V _{GS} = 4.5 V | 9 | | | | | | | |
| 30 | 0.046 at V _{GS} = 2.5 V | 9 | 5.7 nC | | | | | | |
| | 0.052 at V _{GS} = 1.8 V | 9 | | | | | | | |

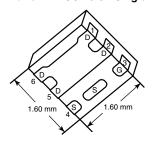
FEATURES

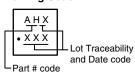
- TrenchFET® Power MOSFET
- 100 % R_a Tested
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

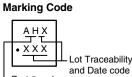


HALOGEN FREE

PowerPAK SC-75-6L-Single

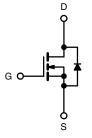






APPLICATIONS

- DC/DC Converters
- **Boost Converters**



N-Channel MOSFET

Ordering Information: SiB410DK-T1-GE3 (Lead (Pb)-free and Halogen-free)

| ABSOLUTE MAXIMUM RATIN | 13.5 (· A 25 0 | | | 1114 | |
|---|-----------------------------------|---------------------|---------------------|------|--|
| Parameter | | Symbol | Limit | Unit | |
| Drain-Source Voltage | V_{DS} | 30 | v | | |
| Gate-Source Voltage | V _{GS} | V _{GS} ± 8 | | | |
| | T _C = 25 °C | | 9 ^a | | |
| Continuous Drain Current (T _{.I} = 150 °C) | T _C = 70 °C | l _D | 9 ^a | | |
| Continuous Diain Current (1) = 130 C) | T _A = 25 °C |] 'D | 5.9 ^{b, c} | | |
| | T _A = 70 °C | 1 [| 4.7 ^{b, c} | A | |
| Pulsed Drain Current | I _{DM} | 20 | | | |
| Continuous Source-Drain Diode Current | T _C = 25 °C | | 9 ^a | | |
| Continuous Source-Drain Diode Current | T _A = 25 °C | Is | 2.1 ^{b, c} | | |
| | T _C = 25 °C | | 13 | | |
| Maximum Power Discipation | T _C = 70 °C | P _D | 8.4 | W | |
| Maximum Power Dissipation | T _A = 25 °C | | 2.5 ^{b, c} | VV | |
| | T _A = 70 °C | 1 [| 1.6 ^{b, c} | | |
| Operating Junction and Storage Temperature | T _J , T _{stg} | - 55 to 150 | °C | | |
| Soldering Recommendations (Peak Tempera | | 260 | | | |

| THERMAL RESISTANCE RATINGS | | | | | | | | | |
|---|--------------|-------------------|---------|---------|--------|--|--|--|--|
| Parameter | | Symbol | Typical | Maximum | Unit | | | | |
| Maximum Junction-to-Ambient ^{b, f} | t ≤ 5 s | R _{thJA} | 41 | 51 | °C/W | | | | |
| Maximum Junction-to-Case (Drain) | Steady State | R _{thJC} | 7.5 | 9.5 | - C/VV | | | | |

- a. Package limited, $T_C = 25$ °C.
- b. Surface mounted on 1" x 1" FR4 board.
- d. See solder profile (www.vishay.com/doc?73257). The PowerPAK SC-75 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.
- f. Maximum under steady state conditions is 105 °C/W.



| Parameter Symbol Test Conditions Min. Typ. Max. Unit Static | SPECIFICATIONS (T _J = 25 °C, unless otherwise noted) | | | | | | | | | |
|--|--|---------------------------|--|------|-------|-------|-------------|--|--|--|
| Drain-Source Breakdown Voltage V _{DS} V _{GS} = 0 V, I _D = 250 μA 30 I V V V V _{DS} Temperature Coefficient $AV_{DS}IT_{J}$ I _D = 250 μA 31 31 N MV/C MV/C V _{DS} = V _{DS} = 0 V, V _{DS} = 250 μA 0.4 1 V V V SECONDA 0.4 1 V V D 2.50 μA 0.0 1 1 V D 2.0 0.0 1 1 V 0.0 0 | Parameter | Symbol | Test Conditions | Min. | Тур. | Max. | Unit | | | |
| V _{Ds} Temperature Coefficient ΔV _{Ds} (T _D) Temperature Coefficient Δ 1 V Gate-Source Invested Resistance I _{Dss} (T _D) Issue Temperature Coefficient I _{Dss} (T _D) Issue Temperature Coefficient V _{Ds} (T _D) Temperature Coefficient ± 100 n.A Constate Coefficient Coefficient I _{Dss} (T _D) Temperature Coefficient V _{Ds} (T _D) Temperature Coefficient ± 100 n.A Constate Coefficient Coefficient I _{Dss} (T _D) Temperature Coefficient I _{Dss} (T _D) Temperature Coefficient 10 10 n.A Constance Constance Constance Constance Constance Constance Constance Constance Coefficient Coefficient Coefficient I _{Dss} (T _D) Temperature Coefficient < | Static | • | | | | | | | | |
| Vas(m) Temperature Coefficient AVas(m) Vas(m) | Drain-Source Breakdown Voltage | V _{DS} | $V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$ | 30 | | | V | | | |
| Vascini, Irriperature Coefficient ΔV _{GS(III)} / V _{DS} = V _{GS, 1} = 250 μA 0.4 1 V Gate-Source Threshold Voltage I _{GSI} V _{DS} = V _{GS, 1} = 250 μA 0.4 1 1 V Zero Gate Voltage Drain Current I _{GSS} V _{DS} = 30 V, V _{GS} = 0 V 1 1 μ On-State Drain Current [®] I _{D(on)} V _{DS} = 30 V, V _{GS} = 0 V 10 1 μ On-State Drain Current [®] I _{D(on)} V _{DS} = 30 V, V _{GS} = 0 V 10 0 A On-State Drain Current [®] I _{D(on)} V _{DS} = 15 V, V _{GS} = 0 V, T _J = 5°C 10 10 A On-State Drain Current [®] I _{D(on)} V _{DS} = 15 V, V _{GS} = 0 V, I = 1 MHz 0.034 0.042 0.041 0.052 D 0.041 0.052 D 0.041 0.052 D | V _{DS} Temperature Coefficient | $\Delta V_{DS}/T_{J}$ | L = 250 uA | | 31 | | mV/°C | | | |
| Case Source Leakage Source Sou | V _{GS(th)} Temperature Coefficient | $\Delta V_{GS(th)}/T_{J}$ | 1D = 230 μΑ | | - 2.7 | | | | | |
| Variable | Gate-Source Threshold Voltage | V _{GS(th)} | $V_{DS} = V_{GS}$, $I_{D} = 250 \mu A$ | 0.4 | | 1 | V | | | |
| Zero Gate Voltage Drain Current Des | Gate-Source Leakage | I _{GSS} | $V_{DS} = 0 \text{ V}, V_{GS} = \pm 8 \text{ V}$ | | | ± 100 | nA | | | |
| On-State Drain Current [®] Ib _{O(on)} V _{DS} = 30 V, V _{GS} = 10 V 10 A On-State Drain Current [®] Ib _{O(on)} V _{DS} = 5 V, V _{GS} = 10 V 10 | Zone Ooks Walks are Dusin Oromant | lass | V _{DS} = 30 V, V _{GS} = 0 V | | | 1 | μΑ | | | |
| Drain-Source On-State Resistance ^a Position Pos | Zero Gate Voltage Drain Current | DSS | $V_{DS} = 30 \text{ V}, V_{GS} = 0 \text{ V}, T_{J} = 55 ^{\circ}\text{C}$ | | | 10 | | | | |
| Drain-Source On-State Resistance and Pasion of Pasion of Pasion Source On-State Resistance and Pasion of Pasion | On-State Drain Current ^a | I _{D(on)} | $V_{DS} \ge 5 \text{ V}, V_{GS} = 10 \text{ V}$ | 10 | | | Α | | | |
| V _{GS} = 1.8 V, I _D = 2 A 0.041 0.052 | | | $V_{GS} = 4.5 \text{ V}, I_D = 3.8 \text{ A}$ | | 0.034 | 0.042 | | | | |
| Forward Transconductance³ 9ts V _{DS} = 15 V, I _D = 3.8 A 30 S Dynamic¹ Input Capacitance C _{Is8} V _{DS} = 15 V, V _{GS} = 0 V, f = 1 MHz 60 — pF Reverse Transfer Capacitance C _{rs8} V _{DS} = 15 V, V _{GS} = 8 V, I _D = 3.4 A 10 15 Total Gate Charge Q _g V _{DS} = 15 V, V _{GS} = 8 V, I _D = 3.4 A 10 15 Gate-Source Charge Q _{gs} V _{DS} = 15 V, V _{GS} = 4.5 V, I _D = 3.4 A 0.85 — n. Gate-Drain Charge Q _{gs} V _{DS} = 15 V, V _{GS} = 4.5 V, I _D = 3.4 A 0.85 — n. Gate Resistance R _g f = 1 MHz 0.6 3 6 Ω Turn-On Delay Time t _d (on) V _{DD} = 15 V, R _L = 4.3 Ω 10 20 40 Fall Time t _L V _{DD} = 15 V, R _L = 4.3 Ω 10 20 40 Turn-Oft Delay Time t _L V _{DD} = 15 V, R _L = 4.3 Ω 10 20 40 Rise Time t _L V _{DD} = 15 V, R _L = 4.3 Ω 10 20 15 10 20 10 <td>Drain-Source On-State Resistance^a</td> <td>R_{DS(on)}</td> <td>$V_{GS} = 2.5 \text{ V}, I_D = 3.6 \text{ A}$</td> <td></td> <td>0.038</td> <td>0.046</td> <td>Ω</td> | Drain-Source On-State Resistance ^a | R _{DS(on)} | $V_{GS} = 2.5 \text{ V}, I_D = 3.6 \text{ A}$ | | 0.038 | 0.046 | Ω | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | V _{GS} = 1.8 V, I _D = 2 A | | 0.041 | 0.052 | | | | |
| $ \begin{array}{ c c c c c c } \hline \text{Input Capacitance} & C_{\text{iss}} \\ \hline \text{Output Capacitance} & C_{\text{oss}} \\ \hline \text{Output Capacitance} & C_{\text{oss}} \\ \hline \text{Reverse Transfer Capacitance} & C_{\text{rss}} \\ \hline \hline \text{Total Gate Charge} & Q_g \\ \hline \text{Gate-Source Charge} & Q_{\text{gs}} \\ \hline \text{Gate-Drain Charge} & Q_{\text{gs}} \\ \hline \text{Gate-Source Charge} & Q_{\text{gs}} \\ \hline \text{Gate-Drain Diode Current} & Q_{\text{gs}} \\ \hline \text{Is} & Q_{\text{gs} & Q_{\text{gs}} \\ \hline \text{Gate-Drain Charge} & Q_{\text{gs}} \\ \hline \text{Is} & Q_{\text{gs}} & Q_{\text{gs}} \\ \hline \text{Gate-Drain Charge} & Q_{\text{gs}} \\ \hline \text{Is} & Q_{\text{gs}} & Q_{\text{gs}} \\ \hline \text{Gate-Drain Charge} & Q_{\text{gs}} \\ \hline \text{Is} & Q_{\text{gs}} & Q_{\text{gs}}$ | Forward Transconductance ^a | 9 _{fs} | V _{DS} = 15 V, I _D = 3.8 A | | 30 | | S | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Dynamic ^b | • | | | • | • | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Input Capacitance | C _{iss} | | | 560 | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Output Capacitance | C _{oss} | $V_{DS} = 15 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$ | | 60 | | pF | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Reverse Transfer Capacitance | C _{rss} | | | 27 | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Total Cata Chausa | 0 | $V_{DS} = 15 \text{ V}, V_{GS} = 8 \text{ V}, I_D = 3.4 \text{ A}$ | | 10 | 15 | nC | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Total Gate Charge | Q_{g} | | | 5.7 | 8.6 | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Gate-Source Charge | Q_{gs} | $V_{DS} = 15 \text{ V}, V_{GS} = 4.5 \text{ V}, I_D = 3.4 \text{ A}$ | | 0.85 | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Gate-Drain Charge | Q _{gd} | | | 0.75 | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Gate Resistance | - | | 0.6 | 3 | 6 | Ω | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Turn-On Delay Time | t _{d(on)} | | | 6 | 12 | | | | |
| | Rise Time | t _r | V_{DD} = 15 V, R_L = 4.3 Ω | | 10 | 20 | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Turn-Off Delay Time | t _{d(off)} | $I_D\cong 3.5$ A, $V_{GEN}=4.5$ V, $R_g=1$ Ω | | 20 | 40 | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Fall Time | t _f | | | 10 | 20 | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Turn-On Delay Time | t _{d(on)} | | | 5 | 10 | ns | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Rise Time | t _r | V_{DD} = 15 V, R_L = 4.3 Ω | | 10 | 20 | - - - | | | |
| | Turn-Off Delay Time | t _{d(off)} | $I_D \cong 3.5 \text{ A}, V_{GEN} = 8 \text{ V}, R_g = 1 \Omega$ | | 17 | 30 | | | | |
| | Fall Time | t _f | | | 10 | 20 | | | | |
| Pulse Diode Forward Current I_{SM} 20 Body Diode Voltage V_{SD} $I_S = 3.5 \text{ A}, V_{GS} = 0 \text{ V}$ 0.8 1.2 V Body Diode Reverse Recovery Time t_{rr} 15 30 ns Body Diode Reverse Recovery Charge Q_{rr} Reverse Recovery Fall Time t_a $I_F = 3.5 \text{ A}, \text{ dl/dt} = 100 \text{ A/µs}, T_J = 25 °C$ | Drain-Source Body Diode Characteristic | s | | | • | • | | | | |
| Pulse Diode Forward Current I_{SM} 20 Body Diode Voltage V_{SD} $I_S = 3.5 \text{ A}, V_{GS} = 0 \text{ V}$ 0.8 1.2 V Body Diode Reverse Recovery Time t_{rr} 15 30 ns Body Diode Reverse Recovery Charge Q_{rr} $I_F = 3.5 \text{ A}, dI/dt = 100 \text{ A/µs}, T_J = 25 °C$ Reverse Recovery Fall Time t_a $I_F = 3.5 \text{ A}, dI/dt = 100 \text{ A/µs}, T_J = 25 °C$ | Continuous Source-Drain Diode Current | Is | T _C = 25 °C | | | 1.5 | - A | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Pulse Diode Forward Current | I _{SM} | | | | 20 | | | | |
| Body Diode Reverse Recovery Time t_{rr} 1530nsBody Diode Reverse Recovery Charge Q_{rr} $I_F = 3.5 \text{ A}$, $dI/dt = 100 \text{ A/μs}$, $T_J = 25 ^{\circ}\text{C}$ 612nCReverse Recovery Fall Time t_a n_s | Body Diode Voltage | | $I_S = 3.5 \text{ A}, V_{GS} = 0 \text{ V}$ | | 0.8 | 1.2 | V | | | |
| Body Diode Reverse Recovery Charge Q_{rr} Reverse Recovery Fall Time t_a $I_F = 3.5 \text{ A, dI/dt} = 100 \text{ A/µs, T}_J = 25 \text{ °C}$ 8 | Body Diode Reverse Recovery Time | | | | 15 | 30 | ns | | | |
| Reverse Recovery Fall Time t _a I _F = 3.5 A, dl/dt = 100 A/μs, 1 _J = 25 °C 8 | Body Diode Reverse Recovery Charge | | 1 05 A 41/4 100 A/v- T 05 00 | | 6 | 12 | nC | | | |
| ns ns | Reverse Recovery Fall Time | 1 | $I_F = 3.5 \text{ A, al/at} = 100 \text{ A/}\mu\text{s, } I_J = 25 \text{ °C}$ | | 8 | | | | | |
| | | + | | | 7 | | ns | | | |

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.

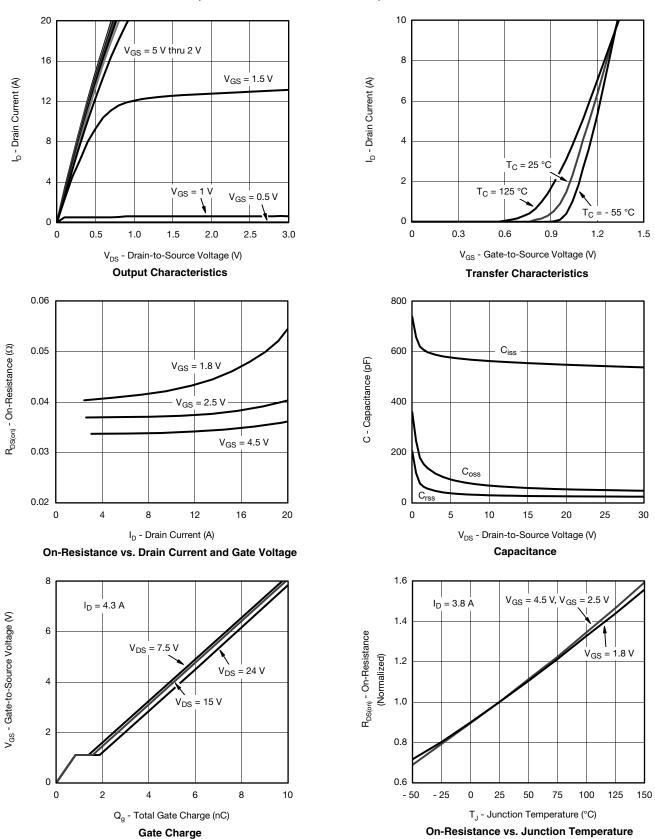
a. Pulse test; pulse width \leq 300 μ s, duty cycle \leq 2 %

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

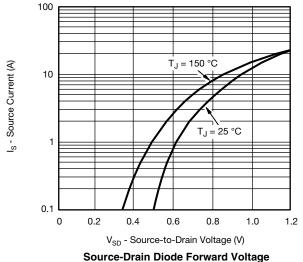


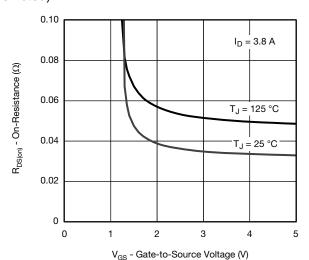


TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

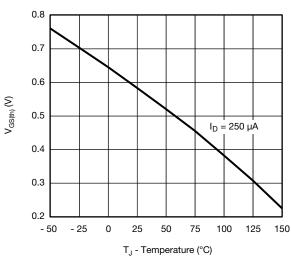


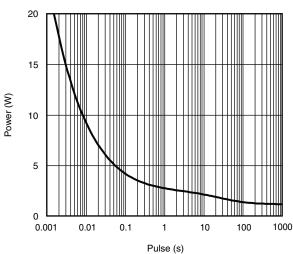
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)





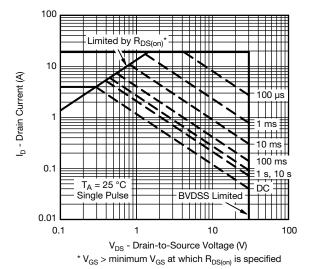
On-Resistance vs. Gate-to-Source Voltage





Threshold Voltage

Single Pulse Power

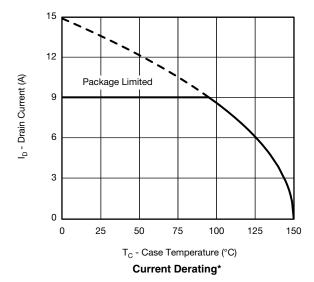


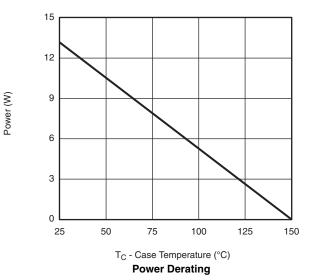
Safe Operating Area, Junction-to-Ambient





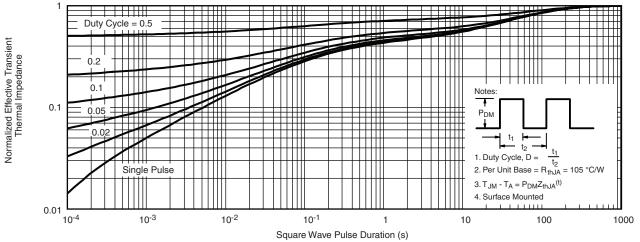
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



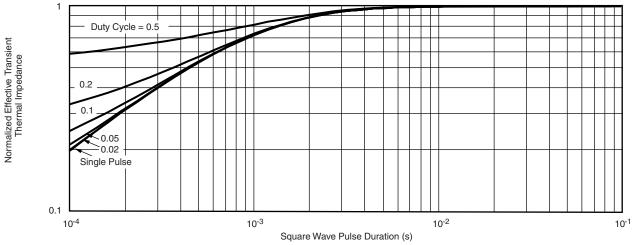


^{*} The power dissipation P_D is based on $T_{J(max)} = 150$ °C, using junction-to-case thermal resistance, and is more useful in settling the upper dissipation limit for cases where additional heatsinking is used. It is used to determine the current rating, when this rating falls below the package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

TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



Normalized Thermal Transient Impedance, Junction-to-Ambient



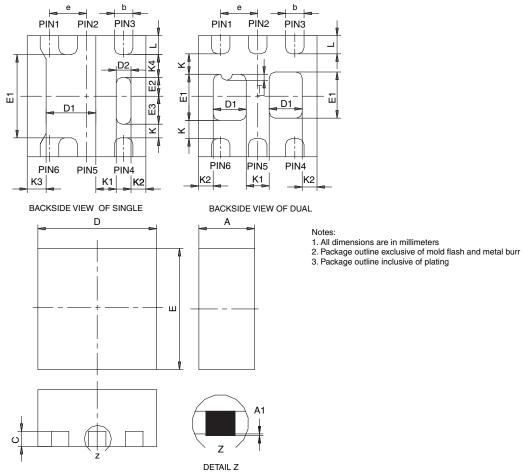
Normalized Thermal Transient Impedance, Junction-to-Case

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?67020.





PowerPAK® SC75-6L



| | | | SINGL | E PAD | | | | | DUAI | AL PAD | | | |
|------------|-------|-----------|-------|-----------|-----------|-------|-----------|-----------|------|-----------|-----------|-------|--|
| DIM | М | ILLIMETER | RS | | INCHES | | M | ILLIMETER | RS | | INCHES | | |
| | Min | Nom | Max | Min | Nom | Max | Min | Nom | Max | Min | Nom | Max | |
| Α | 0.675 | 0.75 | 0.80 | 0.027 | 0.030 | 0.032 | 0.675 | 0.75 | 0.80 | 0.027 | 0.030 | 0.032 | |
| A 1 | 0 | - | 0.05 | 0 | - | 0.002 | 0 | - | 0.05 | 0 | - | 0.002 | |
| b | 0.18 | 0.25 | 0.33 | 0.007 | 0.010 | 0.013 | 0.18 | 0.25 | 0.33 | 0.007 | 0.010 | 0.013 | |
| С | 0.15 | 0.20 | 0.25 | 0.006 | 0.008 | 0.010 | 0.15 | 0.20 | 0.25 | 0.006 | 0.008 | 0.010 | |
| D | 1.53 | 1.60 | 1.70 | 0.060 | 0.063 | 0.067 | 1.53 | 1.60 | 1.70 | 0.060 | 0.063 | 0.067 | |
| D1 | 0.57 | 0.67 | 0.77 | 0.022 | 0.026 | 0.030 | 0.34 | 0.44 | 0.54 | 0.013 | 0.017 | 0.021 | |
| D2 | 0.10 | 0.20 | 0.30 | 0.004 | 0.008 | 0.012 | | | | | | | |
| E | 1.53 | 1.60 | 1.70 | 0.060 | 0.063 | 0.067 | 1.53 | 1.60 | 1.70 | 0.060 | 0.063 | 0.067 | |
| E1 | 1.00 | 1.10 | 1.20 | 0.039 | 0.043 | 0.047 | 0.51 | 0.61 | 0.71 | 0.020 | 0.024 | 0.028 | |
| E2 | 0.20 | 0.25 | 0.30 | 0.008 | 0.010 | 0.012 | | | | | | | |
| E3 | 0.32 | 0.37 | 0.42 | 0.013 | 0.015 | 0.017 | | | | | | | |
| е | | 0.50 BSC | | | 0.020 BSC | ; | | 0.50 BSC | | | 0.020 BSC | | |
| K | | 0.180 TYP |) | | 0.007 TYP | ı | | 0.245 TYP | | | 0.010 TYP | | |
| K1 | | 0.275 TYP |) | | 0.011 TYP | ı | 0.320 TYP | | | 0.013 TYP | | | |
| K2 | | 0.200 TYP |) | 0.008 TYP | | | 0.200 BSC | | | 0.008 TYP | | | |
| К3 | | 0.255 TYP |) | 0.010 TYP | | | | | | | | | |
| K4 | | 0.300 TYP |) | 0.012 TYP | | | | | | | | | |
| L | 0.15 | 0.25 | 0.35 | 0.006 | 0.010 | 0.014 | 0.15 | 0.25 | 0.35 | 0.006 | 0.010 | 0.014 | |
| Т | | | | | | | 0.03 | 0.08 | 0.13 | 0.001 | 0.003 | 0.005 | |

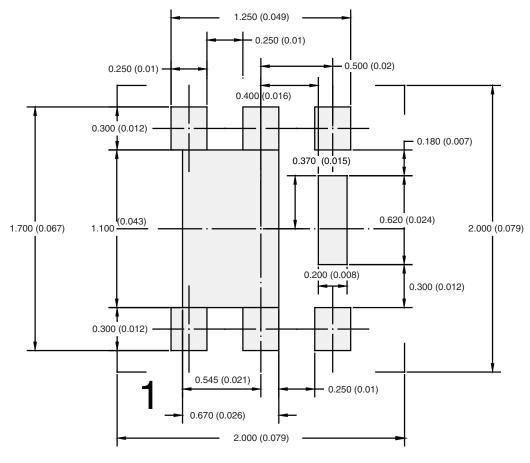
ECN: C-07431 - Rev. C, 06-Aug-07

DWG: 5935

Document Number: 73000 06-Aug-07



RECOMMENDED PAD LAYOUT FOR PowerPAK® SC75-6L Single



Dimensions in mm/(Inches)

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ATTLICATION NOT



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