

**DE3L40****400V 3A****特長**

- SMD
- 低ノイズ
- trr=50ns

**Feature**

- SMD
- Low Noise
- trr=50ns

**用途**

- スイッチング電源
- DC/DC コンバータ
- フライホール
- 家電、OA、照明
- 通信、FA

**Main Use**

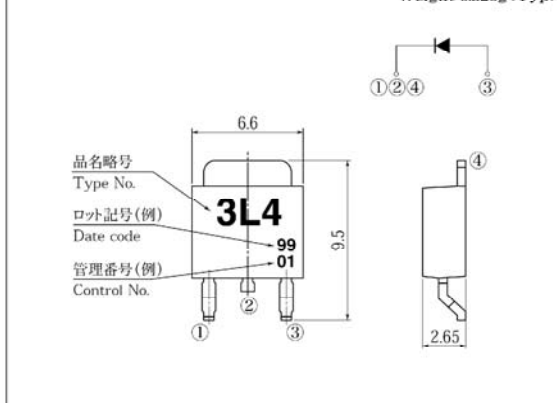
- Switching Regulator
- DC/DC Converter
- Fly Wheel
- Home Appliance, Office Automation, Lighting
- Communication, Factory Automation

**■外観図 OUTLINE**

Package : E-pack

Unit:mm

Weight 0.326g (Typ)



外形図については新電元Webサイト又は〈半導体製品一覧表〉をご参照下さい。捺印表示については捺印仕様をご確認下さい。

For details of the outline dimensions, refer to our web site or Semiconductor Short Form Catalog. As for the marking, refer to the specification "Marking, Terminal Connection".

**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings** (指定のない場合  $T_c = 25^\circ\text{C}$ )

| 項目<br>Item                                | 記号<br>Symbol | 条件<br>Conditions                                                                                                                  | 品名<br>Type No.                                            | DE3L40  | 単位<br>Unit       |
|-------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|------------------|
| 保存温度<br>Storage Temperature               | $T_{stg}$    |                                                                                                                                   |                                                           | -55~150 | $^\circ\text{C}$ |
| 接合部温度<br>Operation Junction Temperature   | $T_j$        |                                                                                                                                   |                                                           | 150     | $^\circ\text{C}$ |
| せん頭逆電圧<br>Maximum Reverse Voltage         | $V_{RM}$     |                                                                                                                                   |                                                           | 400     | V                |
| 出力電流<br>Average Rectified Forward Current | $I_o$        | 50Hz 正弦波, 抵抗負荷<br>50Hz sine wave, Resistance load                                                                                 | $T_c = 99^\circ\text{C}$                                  | 3       | A                |
|                                           |              |                                                                                                                                   | $T_a = 25^\circ\text{C}$ アルミナ基板実装<br>On alumina substrate | 1.9     |                  |
| せん頭サージ順電流<br>Peak Surge Forward Current   | $I_{FSM}$    | 50Hz 正弦波, 非繰り返し1サイクルせん頭値, $T_j = 25^\circ\text{C}$<br>50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j = 25^\circ\text{C}$ |                                                           | 50      | A                |

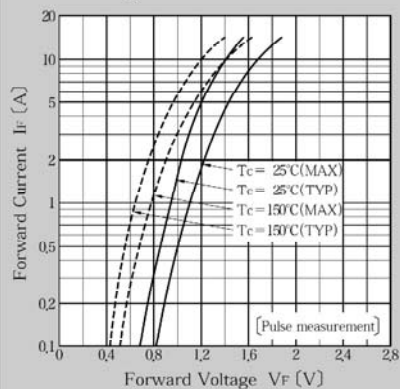
**●電氣的・熱的特性 Electrical Characteristics** (指定のない場合  $T_c = 25^\circ\text{C}$ )

|                                |               |                                                                |         |                    |
|--------------------------------|---------------|----------------------------------------------------------------|---------|--------------------|
| 順電圧<br>Forward Voltage         | $V_F$         | $I_F = 3\text{A}$ , パルス測定<br>Pulse measurement                 | MAX 1.3 | V                  |
| 逆電流<br>Reverse Current         | $I_R$         | $V_R = V_{RM}$ , パルス測定<br>Pulse measurement                    | MAX 10  | $\mu\text{A}$      |
| 逆回復時間<br>Reverse Recovery Time | trr           | $I_F = 0.5\text{A}$ , $I_R = 1\text{A}$                        | MAX 50  | ns                 |
| 熱抵抗<br>Thermal Resistance      | $\theta_{jc}$ | 接合部・ケース間<br>Junction to case                                   | MAX 12  | $^\circ\text{C/W}$ |
|                                | $\theta_{ja}$ | 接合部・周囲間, アルミナ基板実装<br>Junction to ambient, On alumina substrate | MAX 55  |                    |

## ■特性図 CHARACTERISTIC DIAGRAMS

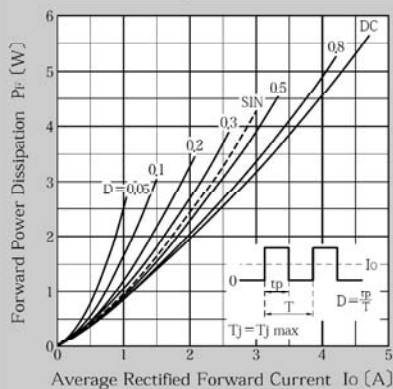
順方向特性

Forward Voltage



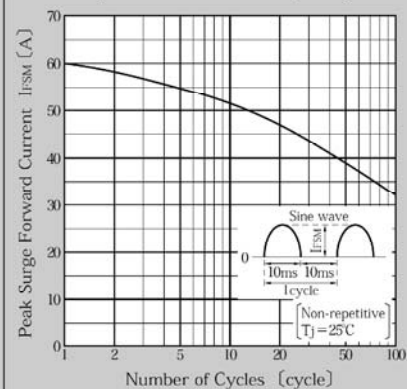
順電力損失曲線

Forward Power Dissipation



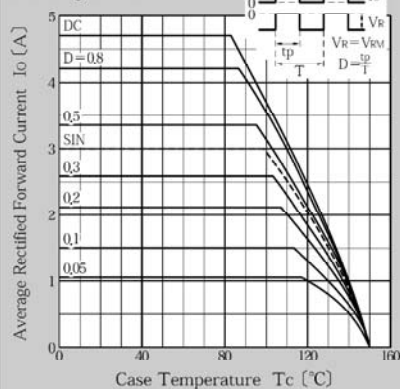
せん頭サージ順電流耐量

Peak Surge Forward Current Capability



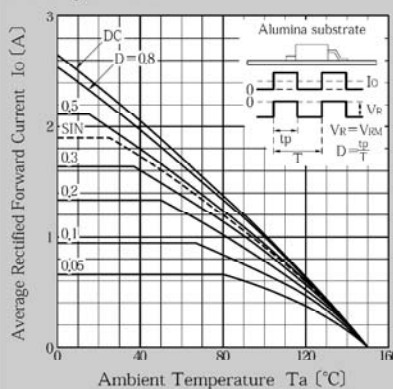
ディレーティングカーブ Tc-Io

Derating Curve Tc-Io



ディレーティングカーブ Ta-Io

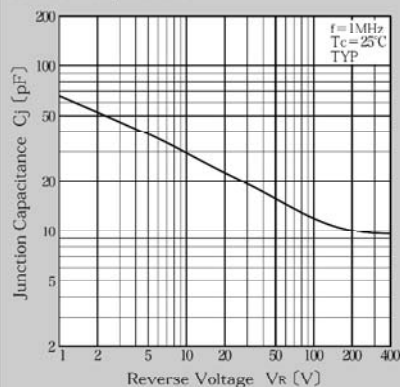
Derating Curve Ta-Io



|                             |           |
|-----------------------------|-----------|
| Soldering land of lead wire | 1.5×2.5mm |
| Soldering land of heatsink  | 7×7mm     |
| Conductor layer             | 20μm      |
| Substrate thickness         | 0.64mm    |

接合容量

Junction Capacitance



- \* Sine waveは50Hzで測定しています。
- \* 50Hz sine wave is used for measurements.
- \* 半導体製品の特性は一般的にバラツキを持っています。
- \* Typical is statistical average of the device's ability.
- \* Semiconductor products generally have characteristic variation.
- \* Typical is a statistical average of the device's ability.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Shindengen:

[DE3L40-4100](#) [DE3L40-7101](#) [DE3L40-7100](#) [DE3L40-7071](#) [DE3L40-7061](#) [DE3L40-4101](#) [DE3L40-4071](#) [DE3L40-4061](#)