

**D20LC40****400V 20A****特長**

- 低ノイズ
- trr=50ns
- フルモールド

**Feature**

- Low Noise
- trr=50ns
- Full Molded

**用途**

- スイッチング電源
- フライホール
- 家電、OA
- FA

**Main Use**

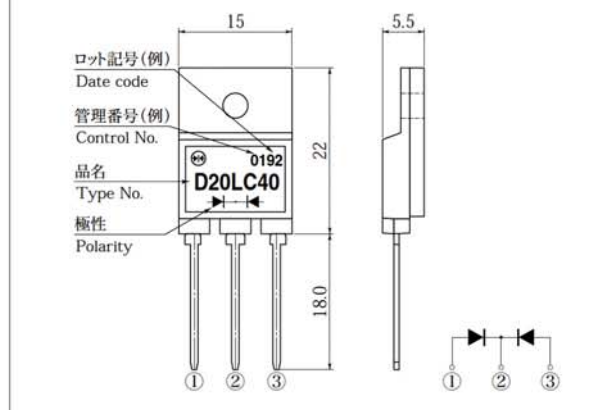
- Switching Regulator
- Fly Wheel
- Home Appliance, Office Automation
- Factory Automation

**■外観図 OUTLINE**

Package : ITO-3P

Unit:mm

Weight 4.3g(Typ)



外形図については新電元Webサイトをご参照下さい。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. As for the marking, refer to the specification "Marking, Terminal Connection".

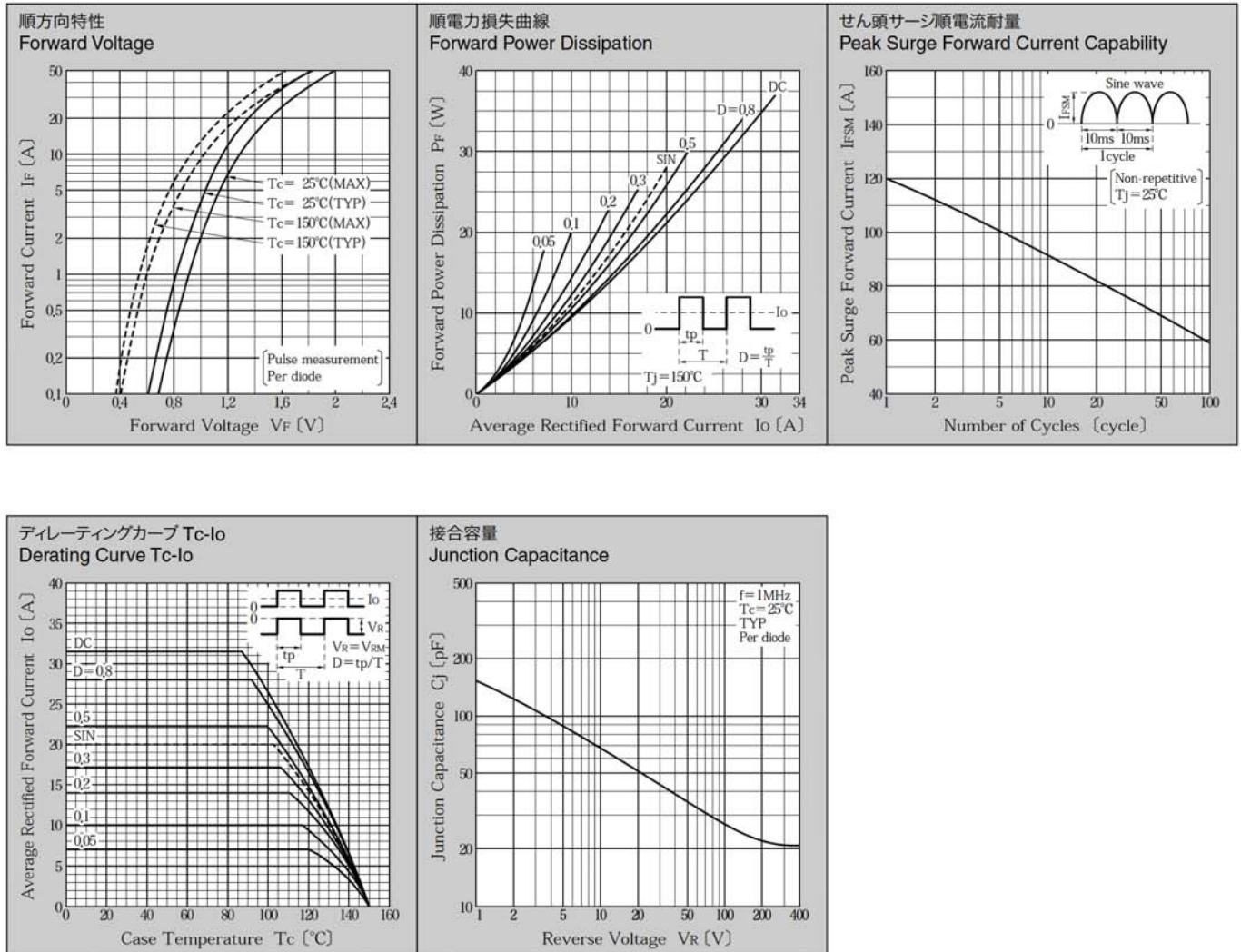
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_c = 25^\circ\text{C}$ )**

| 項目<br>Item                                | 記号<br>Symbol     | 条件<br>Conditions                                                                                                                                                                         | 品名<br>Type No. | D20LC40 | 単位<br>Unit |
|-------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|------------|
| 保存温度<br>Storage Temperature               | Tstg             |                                                                                                                                                                                          |                | -40~150 | ℃          |
| 接合部温度<br>Operation Junction Temperature   | Tj               |                                                                                                                                                                                          |                | 150     | ℃          |
| せん頭逆電圧<br>Maximum Reverse Voltage         | V <sub>RM</sub>  |                                                                                                                                                                                          |                | 400     | V          |
| 出力電流<br>Average Rectified Forward Current | I <sub>O</sub>   | 50Hz正弦波, 抵抗負荷, フィン付き,<br>1素子当りの出力電流平均値 I <sub>O</sub> /2, T <sub>c</sub> = 102℃<br>50Hz sine wave, Resistance load, With heatsink,<br>Per diode I <sub>O</sub> /2, T <sub>c</sub> = 102℃ |                | 20      | A          |
| せん頭サージ順電流<br>Peak Surge Forward Current   | I <sub>FSM</sub> | 50Hz正弦波, 非繰り返し1サイクルせん頭値, T <sub>j</sub> = 25℃<br>50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> = 25℃                                                                 |                | 120     | A          |
| 絶縁耐圧<br>Dielectric Strength               | V <sub>dis</sub> | 一括端子・ケース間, AC 1分間印加<br>Terminals to case, AC 1 minute                                                                                                                                    |                | 1.5     | kV         |
| 締め付けトルク<br>Mounting Torque                | TOR              | (推奨値: 0.5N・m)<br>(Recommended torque: 0.5N・m)                                                                                                                                            |                | 0.8     | N・m        |

**●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 <sub>F</sub>  | I <sub>F</sub> = 10 A, パルス測定, 1素子当りの規格値<br>Pulse measurement, Per diode             | MAX 1.3 | V   |
| 逆電流<br>Reverse Current         | I <sub>R</sub>  | V <sub>R</sub> = V <sub>RM</sub> , パルス測定, 1素子当りの規格値<br>Pulse measurement, Per diode | MAX 10  | μA  |
| 逆回復時間<br>Reverse Recovery Time | trr             | I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A, 1素子当りの規格値<br>Per diode              | MAX 50  | ns  |
| 熱抵抗<br>Thermal Resistance      | θ <sub>JC</sub> | 接合部・ケース間<br>Junction to case                                                        | MAX 1.7 | ℃/W |

## ■特性図 CHARACTERISTIC DIAGRAMS



\* 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 a 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:

[D20LC40-7100](#) [D20LC40-7112](#) [D20LC40-4100](#) [D20LC40-4112](#)