

**DF10LC20U****200V 10A****特長**

- SMD
- 低ノイズ
- trr=35ns

**Feature**

- SMD
- Low Noise
- trr=35ns

**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**

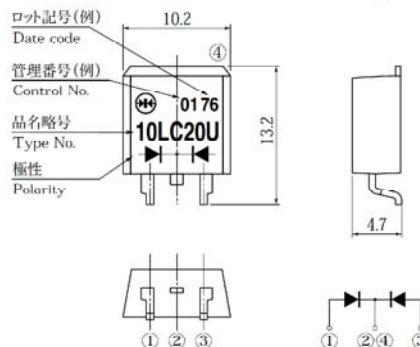
- Switching Regulator
- DC/DC Converter
- Fly Wheel
- Home Appliance, Office Automation, Lighting
- Communication, Factory Automation

**■外観図 OUTLINE**

Package : STO-220

Unit:mm

Weight 1.5g (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".

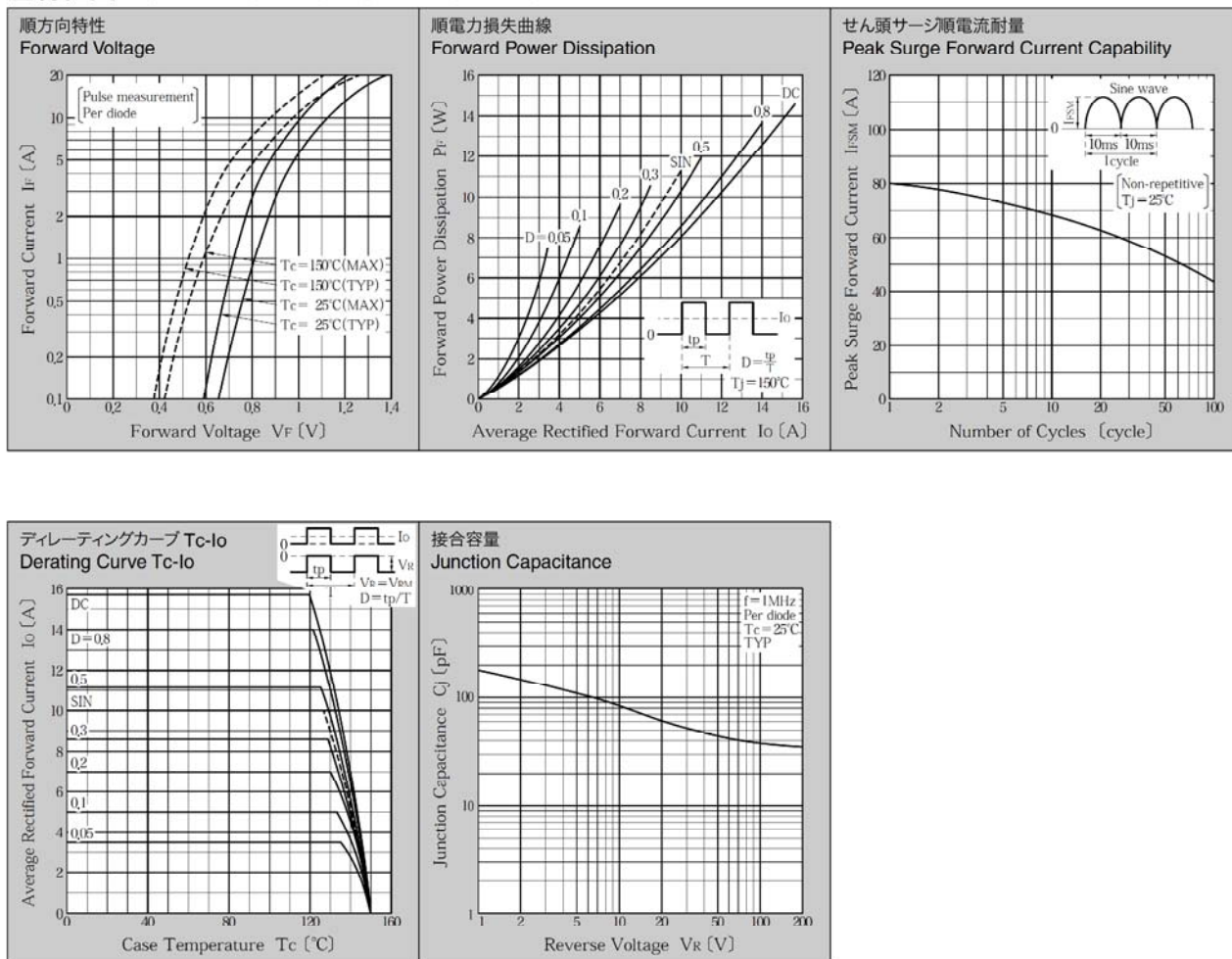
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings** (指定のない場合  $T_c = 25^\circ\text{C}$ )

| 項目<br>Item                                | 記号<br>Symbol | 条件<br>Conditions                                                                                                                                        | 品名<br>Type No. | DF10LC20U | 単位<br>Unit       |
|-------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|------------------|
| 保存温度<br>Storage Temperature               | $T_{stg}$    |                                                                                                                                                         |                | -40~150   | $^\circ\text{C}$ |
| 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         | $V_{RM}$     |                                                                                                                                                         |                | 200       | V                |
| 出力電流<br>Average Rectified Forward Current | $I_o$        | 50Hz正弦波、抵抗負荷、<br>1素子当りの出力電流平均値 $I_o/2$ , $T_c = 127^\circ\text{C}$<br>50Hz sine wave, Resistance load,<br>Per diode $I_o/2$ , $T_c = 127^\circ\text{C}$ |                | 10        | A                |
| 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, $T_j = 25^\circ\text{C}$                         |                | 80        | 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         | $V_F$         | $I_F = 5\text{A}$ , パルス測定、1素子当りの規格値<br>Pulse measurement, Per diode | MAX 0.98 | V                  |
| 逆電流<br>Reverse Current         | $I_R$         | $V_R = V_{RM}$ , パルス測定、1素子当りの規格値<br>Pulse measurement, Per diode    | MAX 10   | $\mu\text{A}$      |
| 逆回復時間<br>Reverse Recovery Time | trr           | $I_F = 0.5\text{A}$ , $I_R = 1\text{A}$ , 1素子当りの規格値<br>Per diode    | MAX 35   | ns                 |
| 熱抵抗<br>Thermal Resistance      | $\theta_{jc}$ | 接合部・ケース間<br>Junction to case                                        | MAX 2    | $^\circ\text{C/W}$ |

## ■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.