

**D120LC40****400V 120A****特長**

- 大電流容量
- $t_{rr}=100\text{ns}$
- $\theta_{jc}$ が小さい

**Feature**

- High  $I_o$  Rating
- $t_{rr}=100\text{ns}$
- Small  $\theta_{jc}$

**用途**

- 半導体製造装置
- 大型電源
- FA

**Main Use**

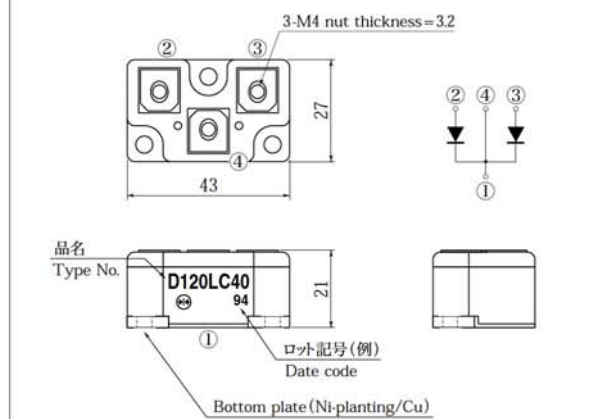
- Semiconductor Process Machine
- High power source
- Factory Automation

**■外観図 OUTLINE**

Package : Module

Unit:mm

Weight 61g (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".

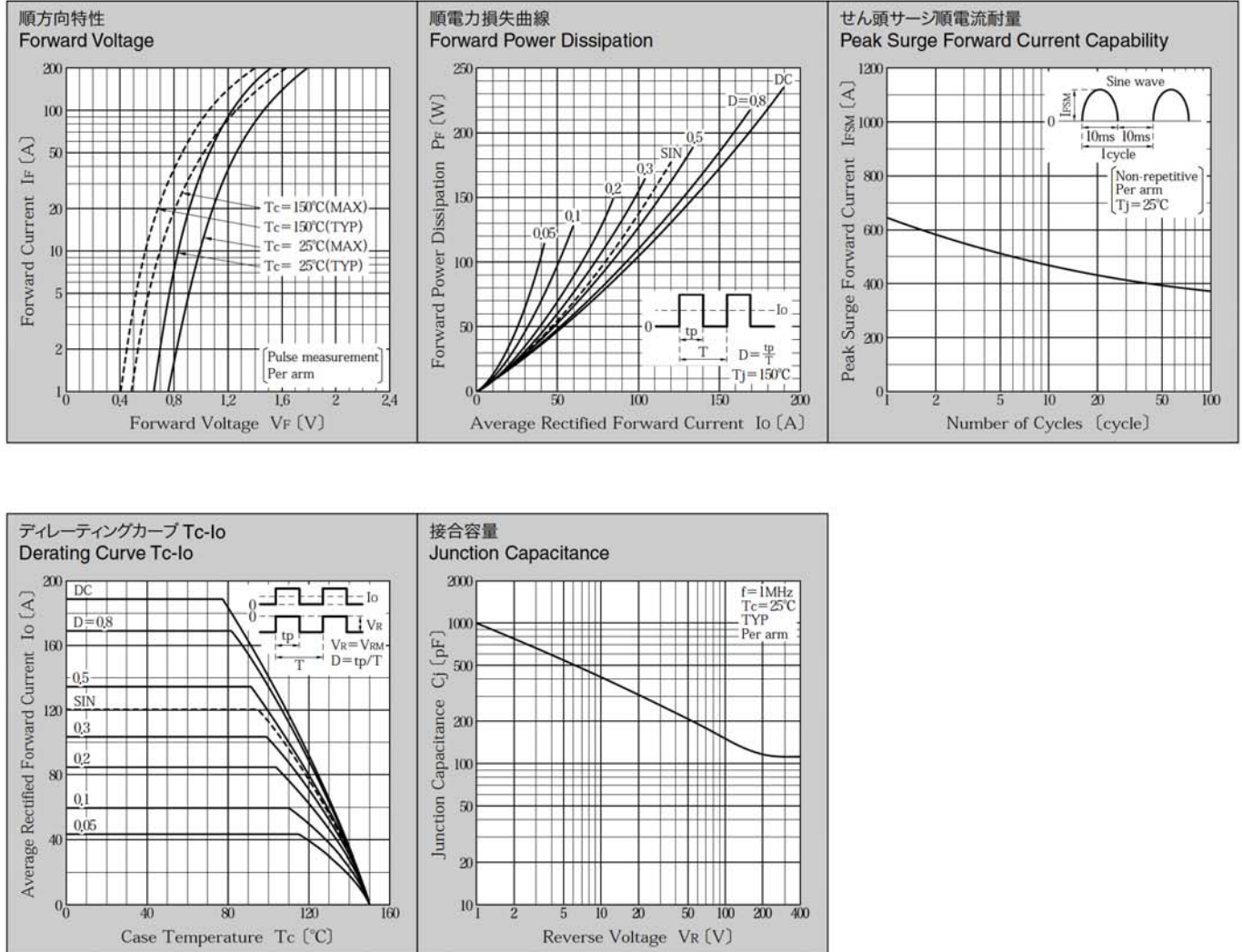
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings** (指定のない場合  $T_c = 25^\circ\text{C}$ )

項目 Item	記号 Symbol	条件 Conditions	品名 Type No.	D120LC40	単位 Unit
保存温度 Storage Temperature	$T_{stg}$			-40~150	$^\circ\text{C}$
接合部温度 Operation Junction Temperature	$T_j$			150	$^\circ\text{C}$
せん頭逆電圧 Maximum Reverse Voltage	$V_{RM}$			400	V
出力電流 Average Rectified Forward Current	$I_o$	50Hz 正弦波, 抵抗負荷, フィン付き, 1素子当りの出力電流平均値 $I_o/2$ , $T_c = 95^\circ\text{C}$ 50Hz sine wave, Resistance load, With heatsink, Per diode $I_o/2$ , $T_c = 95^\circ\text{C}$		120	A
せん頭サージ順電流 Peak Surge Forward Current	$I_{FSM}$	50Hz 正弦波, 非繰り返し1サイクルせん頭値, 1素子当りの規格値, $T_j = 25^\circ\text{C}$ 50Hz sine wave, Non-repetitive 1 cycle peak value, Per diode, $T_j = 25^\circ\text{C}$		650	A
締め付けトルク Mounting Torque	TOR			1.7	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 Forward Voltage	$V_F$	$I_F = 60\text{A}$ , パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 1.30	V
逆電流 Reverse Current	$I_R$	$V_R = V_{RM}$ , パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 25	$\mu\text{A}$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , 1素子当りの規格値 Per diode	MAX 100	ns
熱抵抗 Thermal Resistance	$\theta_{jc}$	接合部・ケース間 Junction to case	MAX 0.31	$^\circ\text{C}/\text{W}$

## ■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.

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工作機器、パーソナル機器、産業用機器等

### 【特別用途】

輸送機器(車載、船舶等)、基幹用通信機器、交通信号機器、防災/防犯機器、各種安全機器、医療  
機器等

### 【特定用途】

原子力制御システム、航空機器、航空宇宙機器、海底中継機器、生命維持のための装置、システム  
等

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[Specific applications]

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