

**D120LC40B****400V 120A****特長**

- 大電流容量
- trr=100ns
- 絶縁型

**Feature**

- High I<sub>o</sub> Rating
- trr=100ns
- Isolation type

**用途**

- 半導体製造装置
- 大型電源
- FA

**Main Use**

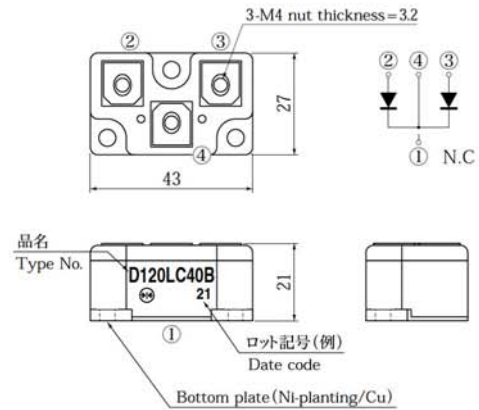
- Semiconductor Process Machine
- High power source
- Factory Automation

**■外観図 OUTLINE**

Package : Module

Unit:mm

Weight 42g (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".

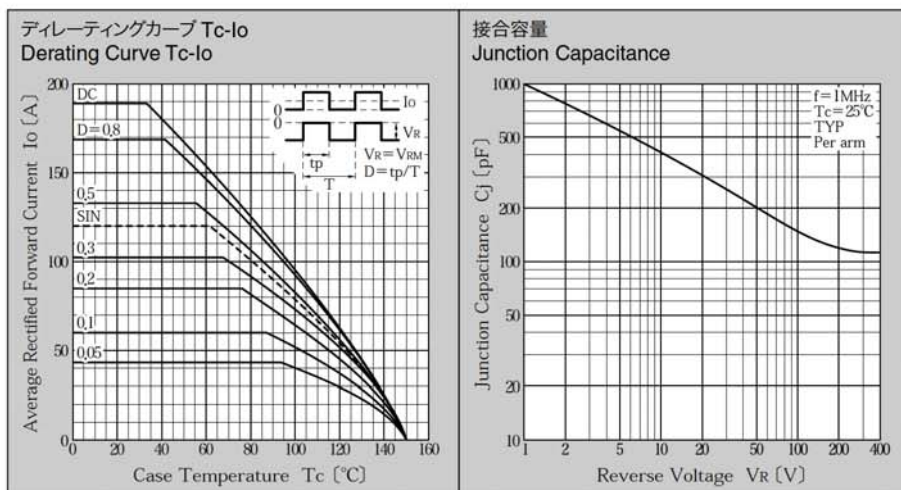
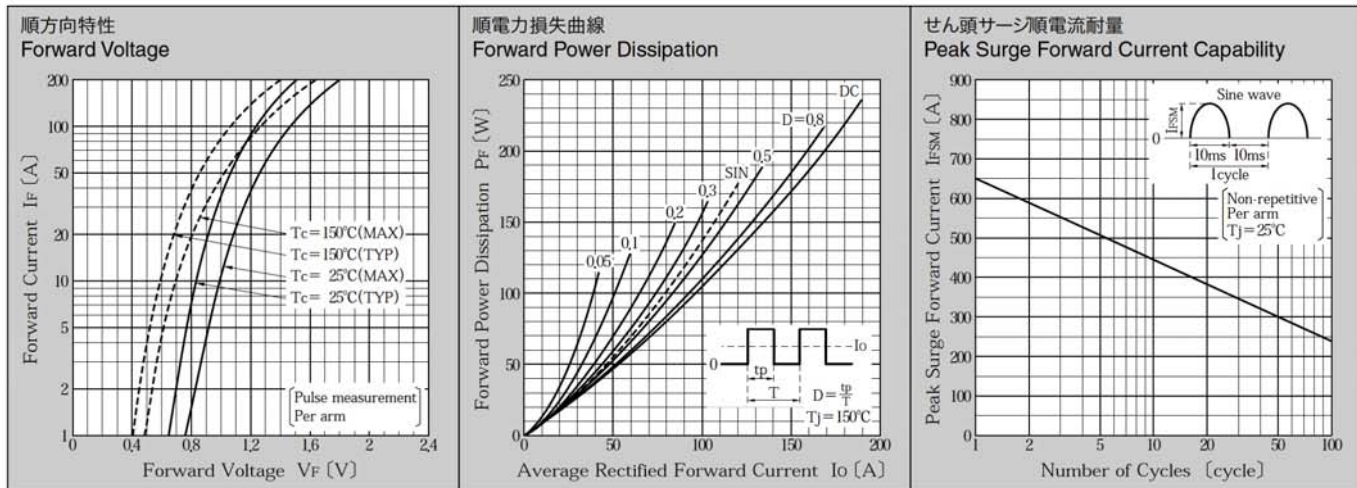
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合 T<sub>c</sub> = 25℃)**

項目 Item	記号 Symbol	条件 Conditions	品名 Type No.	D120LC40B	単位 Unit
保存温度 Storage Temperature	T <sub>stg</sub>			-40~150	℃
接合部温度 Operation Junction Temperature	T <sub>j</sub>			150	℃
せん頭逆電圧 Maximum Reverse Voltage	V <sub>RM</sub>			400	V
出力電流 Average Rectified Forward Current	I <sub>o</sub>	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 <sub>o</sub> /2, T <sub>c</sub> = 60℃ 50Hz sine wave, Resistance load, With heatsink, Per diode I <sub>o</sub> /2, T <sub>c</sub> = 60℃		120	A
せん頭サージ順電流 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, 1素子当りの規格値, T <sub>j</sub> = 25℃ 50Hz sine wave, Non-repetitive 1 cycle peak value, Per diode, T <sub>j</sub> = 25℃		650	A
絶縁耐圧 Dielectric Strength	V <sub>dis</sub>	一括端子・ケース間, AC1分間印加 Terminals to case, AC 1 minute		1.5	kV
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<sub>c</sub> = 25℃)**

順電圧 Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 60 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 <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 Pulse measurement, Per diode	MAX 25	μA
回復時間 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 Per diode	MAX 100	ns
熱抵抗 Thermal Resistance	θ <sub>jc</sub>	接合部・ケース間 Junction to case		MAX 0.5	℃/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は統計的な実力を表しています。  
 \* Semiconductor products generally have characteristic variation.  
 \* Typical is a statistical average of the device's ability.



## Notes

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[Specific applications]

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