

D240LC40**400V 240A****特長**

- 大電流容量
- $t_{rr}=150\text{ns}$
- θ_{jc} が小さい

Feature

- High I_o Rating
- $t_{rr}=150\text{ns}$
- Small θ_{jc}

用途

- 半導体製造装置
- 大型電源
- FA

Main Use

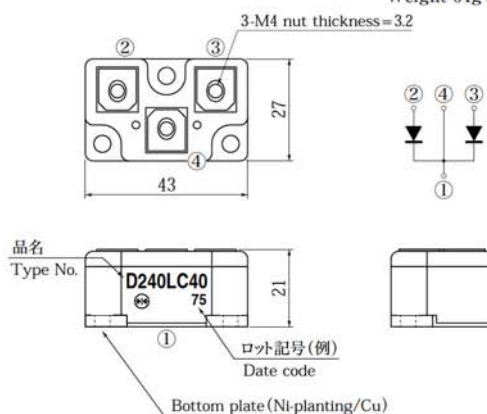
- Semiconductor Process Machine
- High power source
- Factory Automation

■外観図 OUTLINE

Package : Module

Unit:mm

Weight 64g (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ください。

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

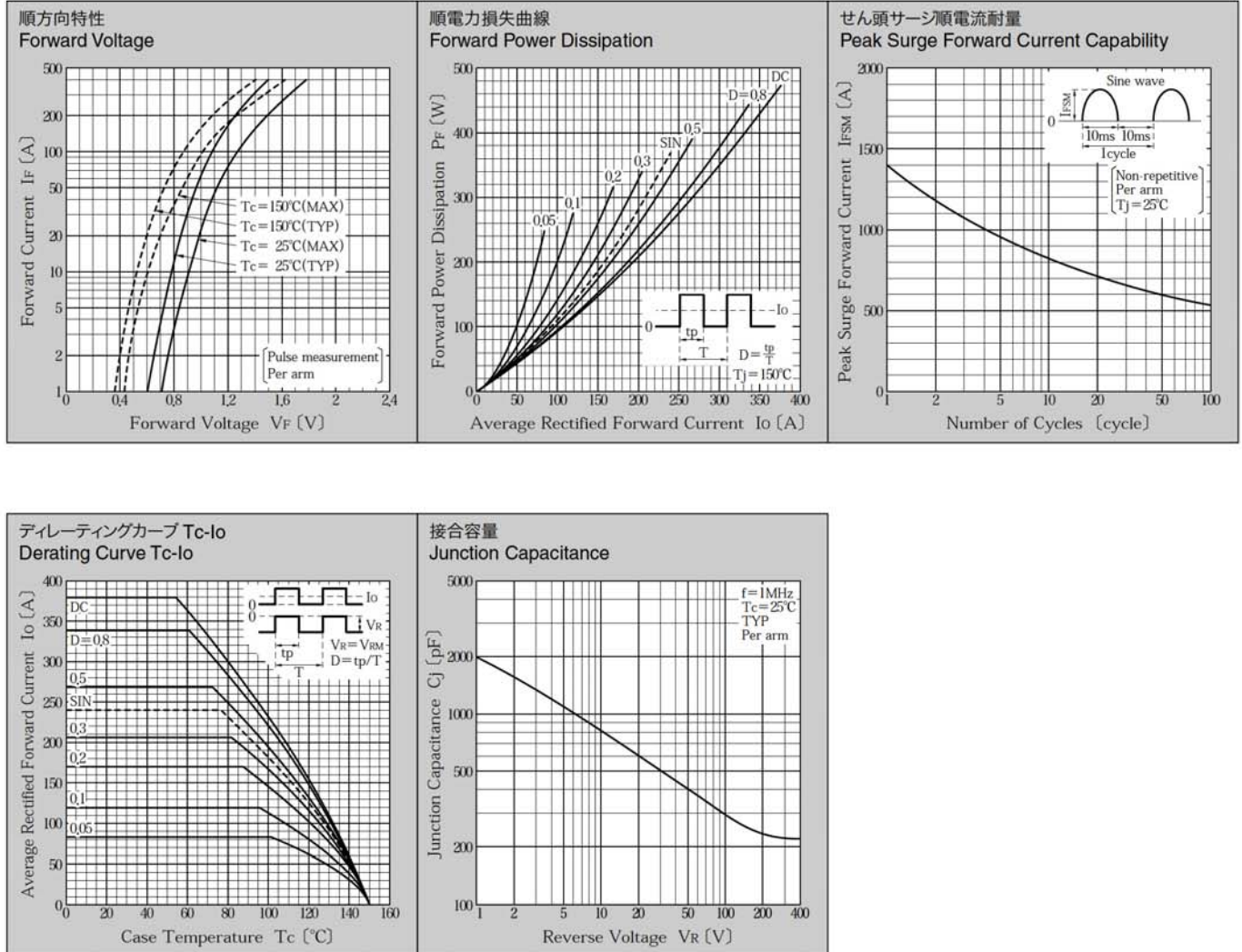
■定格表 RATINGS**●絶対最大定格 Absolute Maximum Ratings (指定のない場合 $T_c = 25^\circ\text{C}$)**

項目 Item	記号 Symbol	条件 Conditions	品名 Type No.	D240LC40	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 $I_o/2$, $T_c = 77^\circ\text{C}$ 50Hz sine wave, Resistance load, With heatsink, Per diode $I_o/2$, $T_c = 77^\circ\text{C}$		240	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, $T_j = 25^\circ\text{C}$		1400	A
締め付けトルク Mounting Torque	TOR	(推奨値: $0.5\text{N}\cdot\text{m}$) (Recommended torque: $0.5\text{N}\cdot\text{m}$)		1.7	$\text{N}\cdot\text{m}$

●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	$I_F = 120\text{A}$, パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 1.3	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 50	μA
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 150	ns
熱抵抗 Thermal Resistance	θ_{jc}	接合部・ケース間 Junction to case	MAX 0.2	$^\circ\text{C}/\text{W}$

■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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【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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