

# Rectifier Diode

# 20CDA40



DO-204AC (DO-15)



## ■ 特長 / Features

- ・ 低VF  
Low forward voltage drop
- ・ 低IR  
Low leakage current
- ・ RoHS指令対応、ハロゲンフリー  
RoHS compliant, Halogen-free
- ・ エポキシ樹脂 (UL94V-0 認定品)  
Epoxy Resin (UL94V-0 recognized)

## ■ アプリケーション / Applications

- ・ 一般整流  
General Purpose Diode
- ・ 逆流防止  
Re-Circulating Diode
- ・ 汎用電源  
General purpose Power Supplies

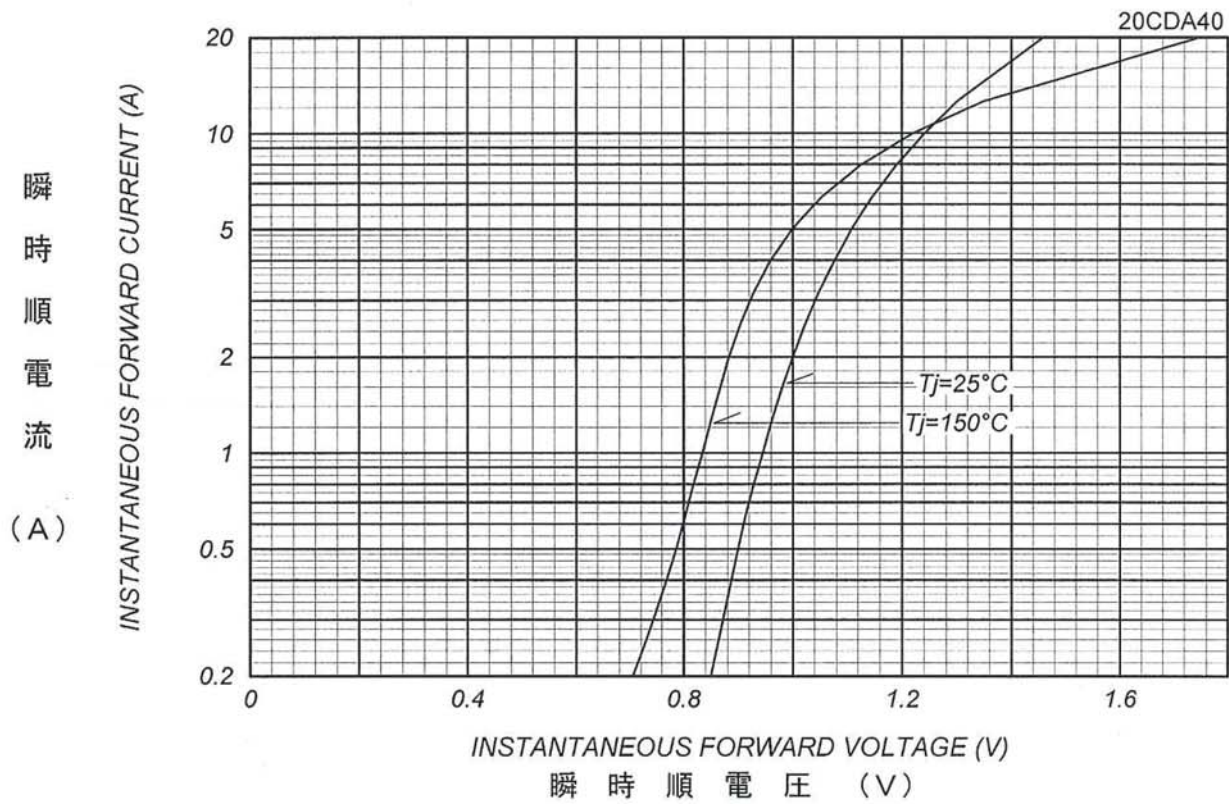
## ■ 最大定格 / Maximum ratings

| Parameter                                        | Symbol    | Conditions                                                      | Limits          | Unit               |
|--------------------------------------------------|-----------|-----------------------------------------------------------------|-----------------|--------------------|
| くり返しピーク逆電圧<br>Repetitive Peak Reverse Voltage    | $V_{RRM}$ |                                                                 | 400             | V                  |
| 平均整流電流<br>Average Rectified Output Current       | $I_O$     | $T_I=114^{\circ}\text{C}$                                       | 2.0             | A                  |
| サージ順電流<br>Surge Forward Current                  | $I_{FSM}$ | 50Hz 正弦半波、1サイクル、非くり返し<br>Half Sine Wave, 1cycle, Non-repetitive | 75              | A                  |
| 動作接合温度範囲<br>Operating Junction Temperature Range | $T_{jw}$  |                                                                 | $-40 \sim +150$ | $^{\circ}\text{C}$ |
| 保存温度範囲<br>Storage Temperature Range              | $T_{stg}$ |                                                                 | $-40 \sim +150$ | $^{\circ}\text{C}$ |

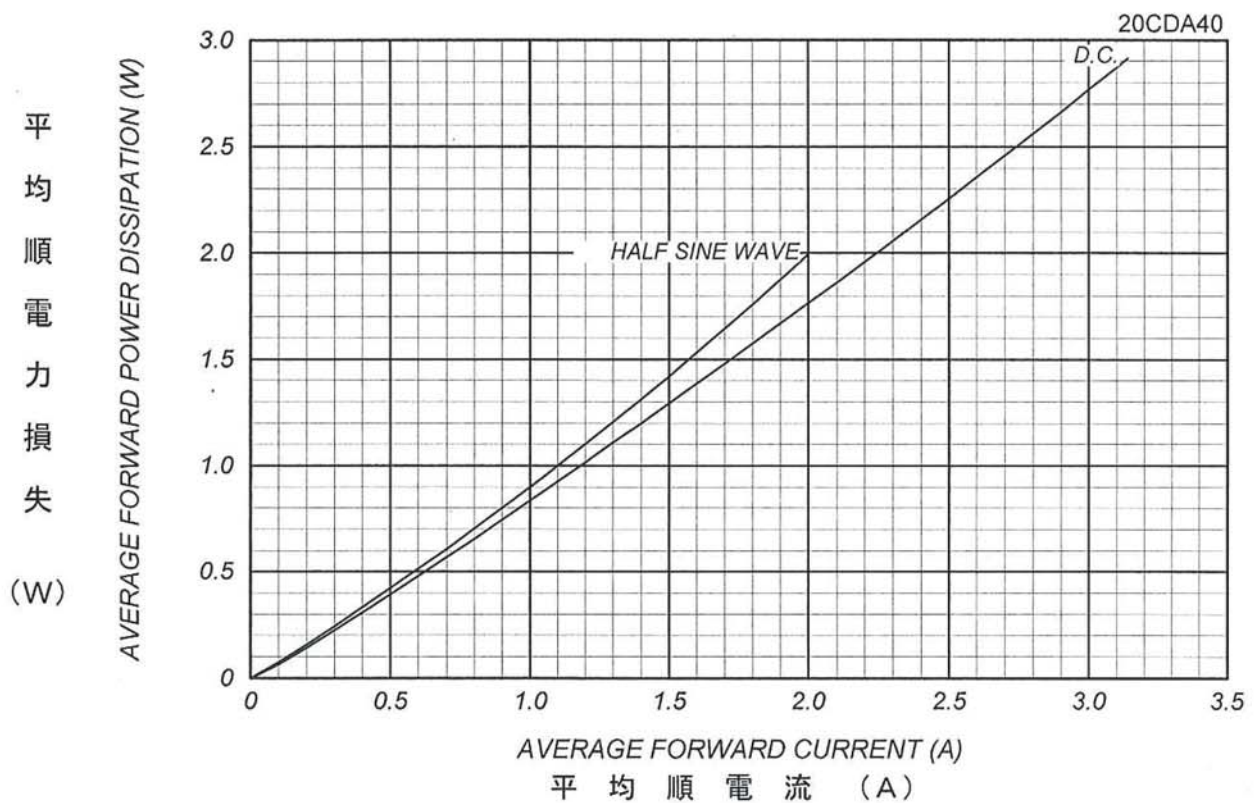
## ■ 電気的特性 / Electrical characteristics

| Parameter                      | Symbol   | Conditions                                  | Min. | Typ. | Max. | Unit                        |
|--------------------------------|----------|---------------------------------------------|------|------|------|-----------------------------|
| ピーク逆電流<br>Peak Reverse Current | $I_{RM}$ | $V_{RM}=V_{RRM}$ $T_j=25^{\circ}\text{C}$   | -    | -    | 0.01 | mA                          |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$ | $I_{FM}=2\text{A}$ $T_j=25^{\circ}\text{C}$ | -    | -    | 1.00 | V                           |
| 熱抵抗<br>Thermal Resistance      | $R_{th}$ | 接合部ーリード間<br>Junction to Lead                | -    | -    | 17   | $^{\circ}\text{C}/\text{W}$ |

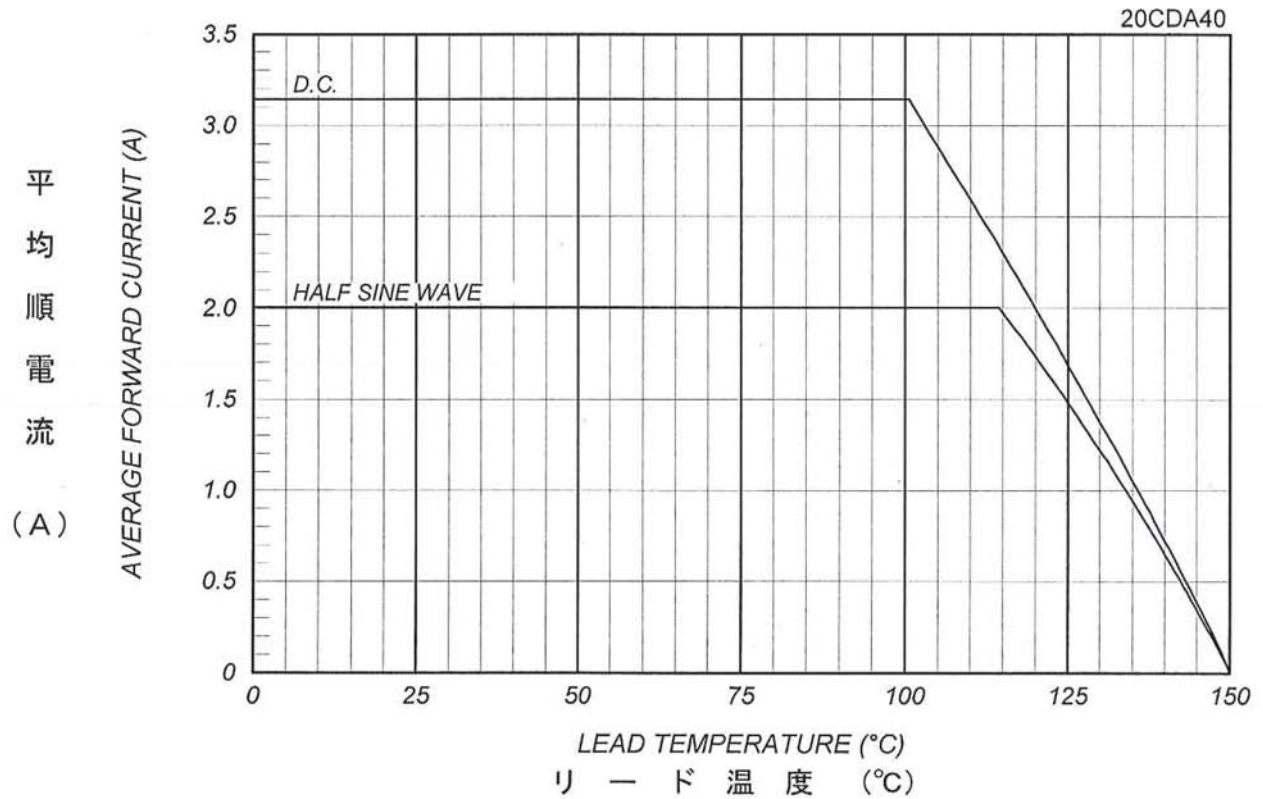
順電圧特性  
FORWARD CURRENT VS. VOLTAGE



平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

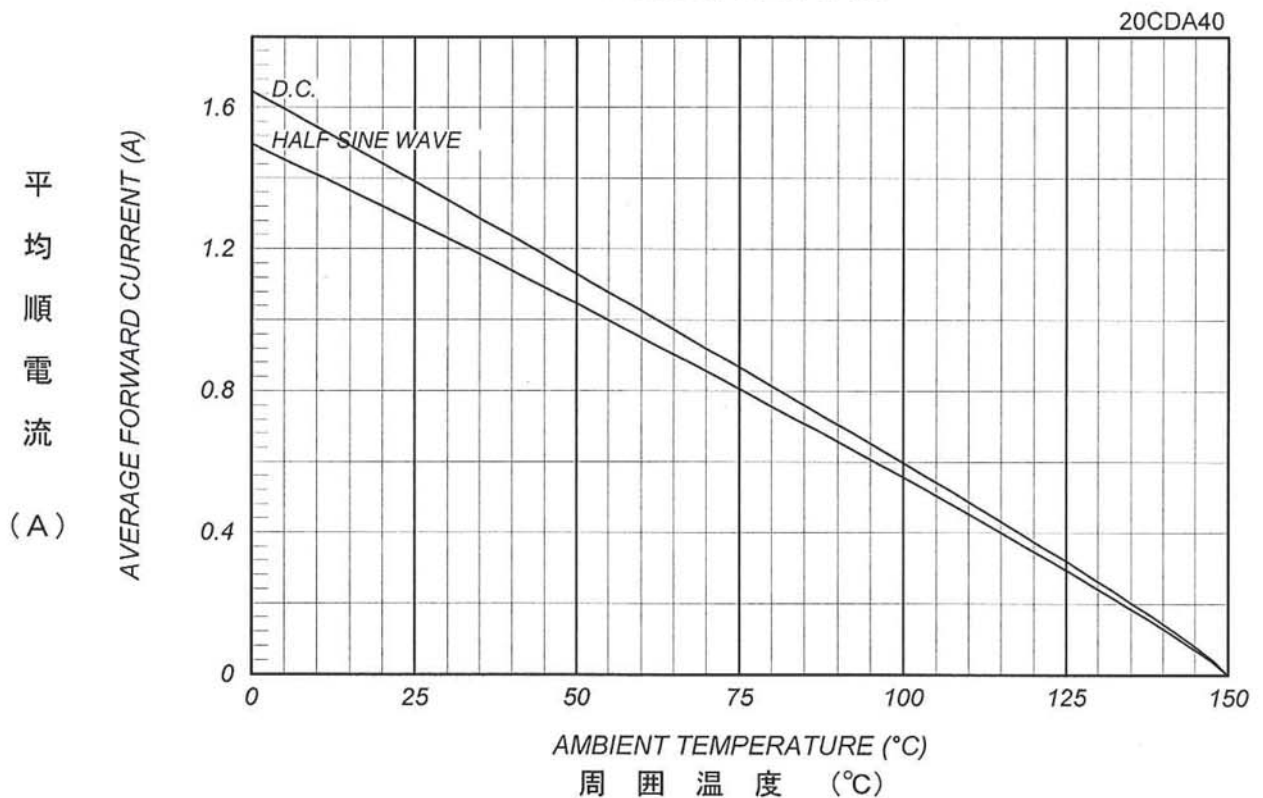


平均順電流－リード温度定格  
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



平均順電流－周囲温度定格  
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board



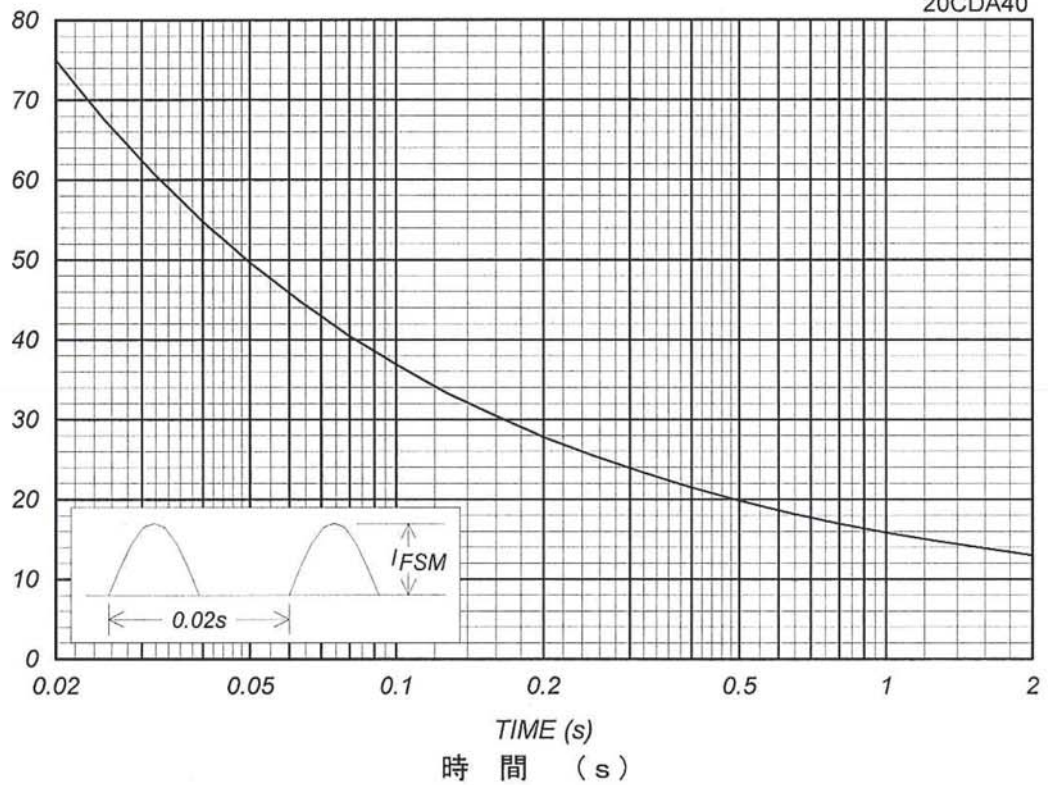
サージ順電流定格  
SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, No Load

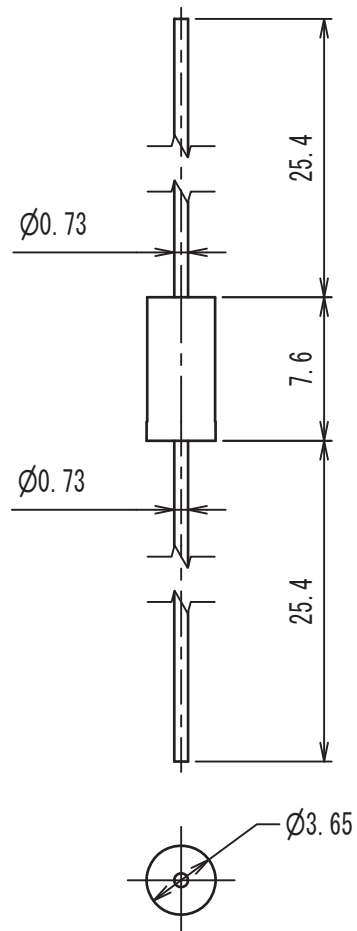
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SURGE FORWARD CURRENT (A)



**DO-204AC (DO-15)**



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【Standard applications】  
Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

【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

【Special applications】  
Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, anti-disaster/crime systems, safety equipment, medical equipment, etc.

【特定用途】  
原子力制御システム、航空機器、航空宇宙機器、海中継機器、生命維持のための装置、システム等

【Specific applications】  
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