

# SHINDENGEN

## General Purpose Rectifiers

Single

# D3F60

## 600V 3A

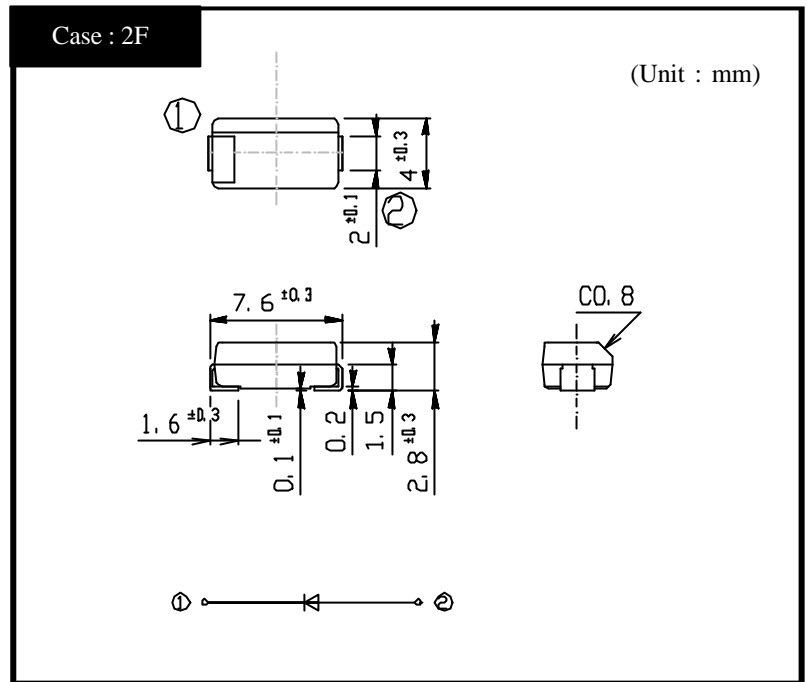
### FEATURES

High reliability with superior moisture resistance  
Applicable to Automatic Insertion

### APPLICATION

Conventional Rectification  
Power source(Power Supply)  
Home Appliances, Office Equipment  
Telecommunication, Factory Automation

### OUTLINEDIMENSIONS



## RATINGS

Absolute Maximum Ratings (If not specified  $T_I=25$  )

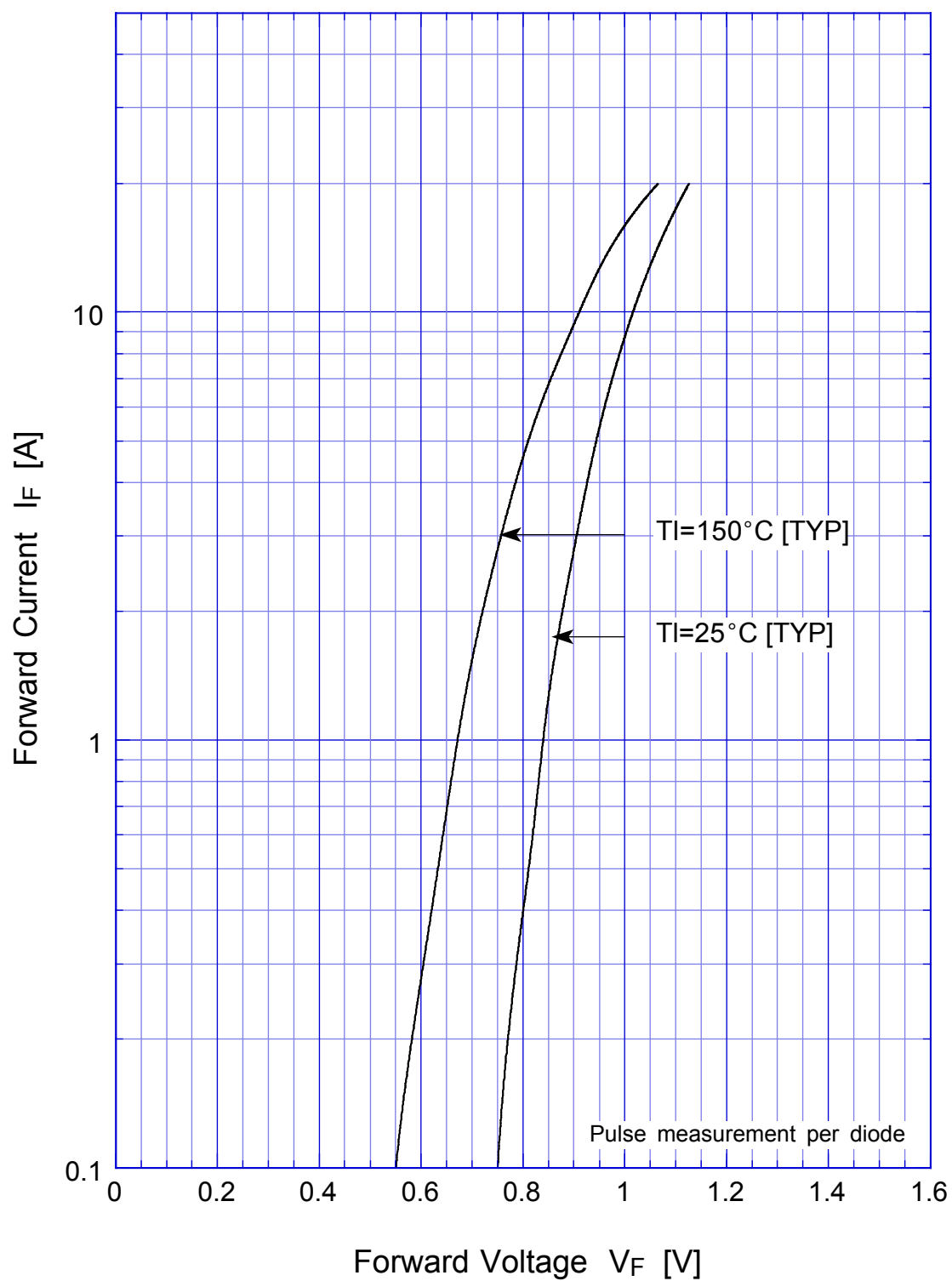
| Item                              | Symbol    | Conditions  | Ratings   | Unit |
|-----------------------------------|-----------|---|-----------|------|
| Storage Temperature               | $T_{stg}$ |   | -55 ~ 150 |      |
| Operating Junction Temperature    | $T_j$     |   | 150       |      |
| Maximum Reverse Voltage           | $V_{RM}$  |   | 600       | V    |
| Average Rectified Forward Current | $I_o$     | 50Hz sine wave, R-load $T_I=80$                             | 3         | A    |
| Peak Surge Forward Current        | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$ | 150       | A    |

Electrical Characteristics (If not specified  $T_I=25$  )

| Item               | Symbol        | Conditions                                    | Ratings  | Unit    |
|--------------------|---------------|---|----------|---------|
| Forward Voltage    | $V_F$         | $I_F=3A$ , Pulse measurement                  | Max.1.05 | V       |
| Reverse Current    | $I_R$         | $V_R=V_{RM}$ , Pulse measurement              | Max.10   | $\mu A$ |
| Thermal Resistance | $\theta_{jl}$ | junction to lead                              | Max.23   | /W      |
|                    | $\theta_{ja}$ | junction to ambient, On alumina substrate     | Max.80   |         |
|                    | $\theta_{ja}$ | junction to ambient, On glass-epoxy substrate | Max.115  |         |

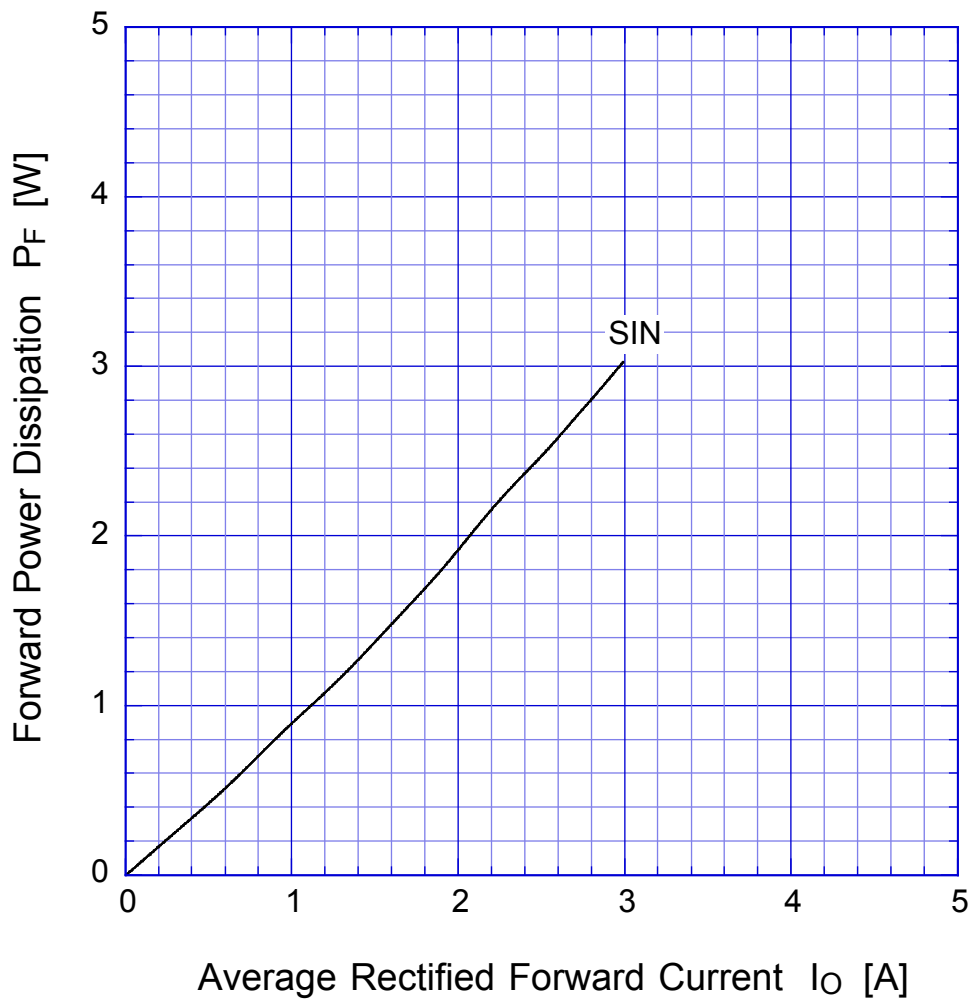
D3F60

Forward Voltage



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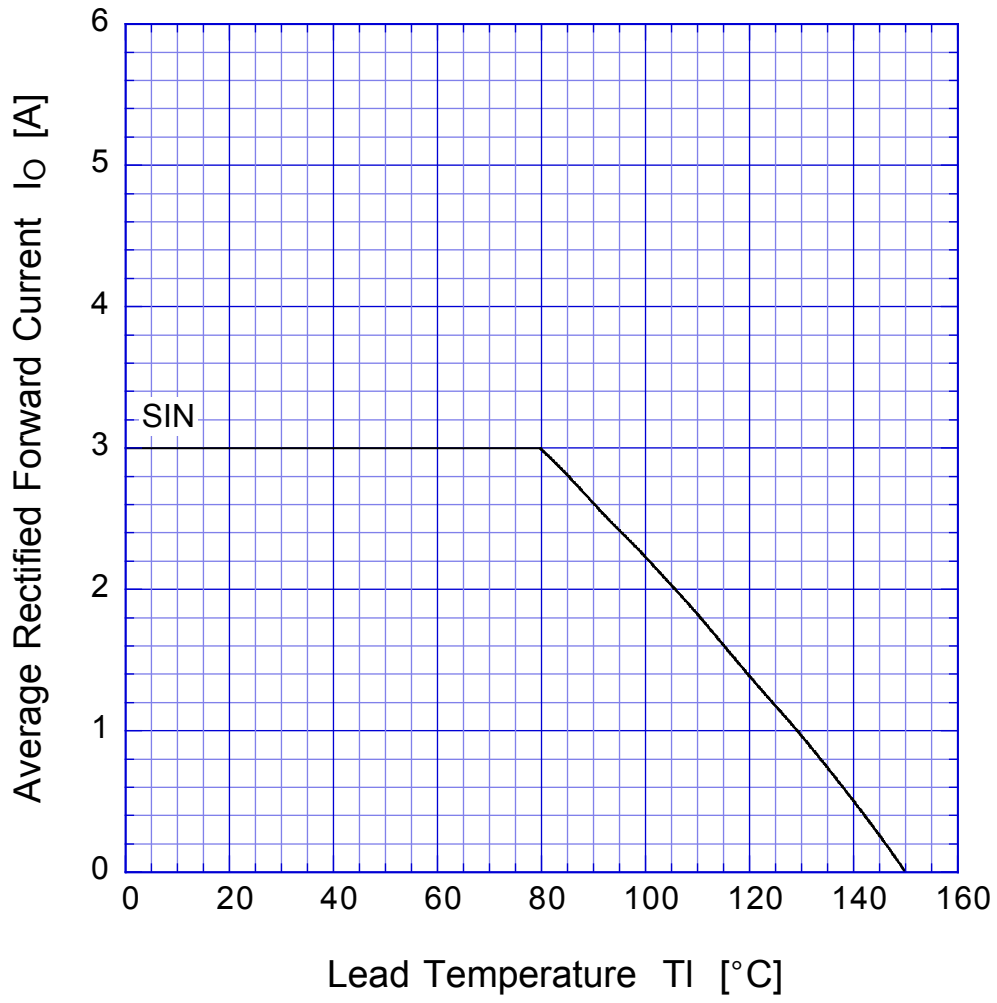
Forward Power Dissipation



$T_j = 150^\circ\text{C}$   
Sine wave

D3F60

Derating Curve



Sine wave  
R-load

# D3F60

## Peak Surge Forward Capability

