

# SHINDENGEN

## Super Fast Recovery Rectifiers

Single

# DE5L60

## 600V 5A

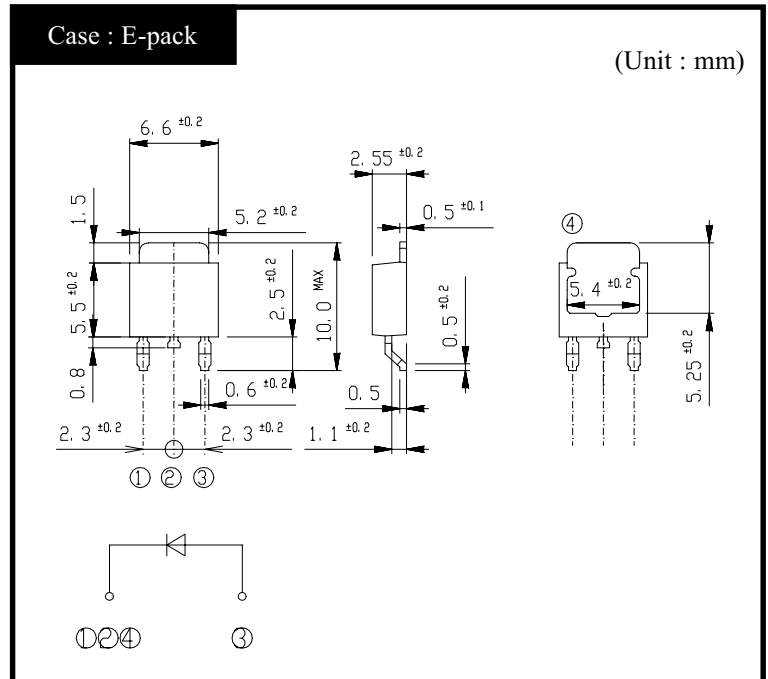
### FEATURES

- SMT
- High Voltage
- trr50ns

### APPLICATION

- PFC
- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment, Factory Automation

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings (If not specified Tc=25°C)

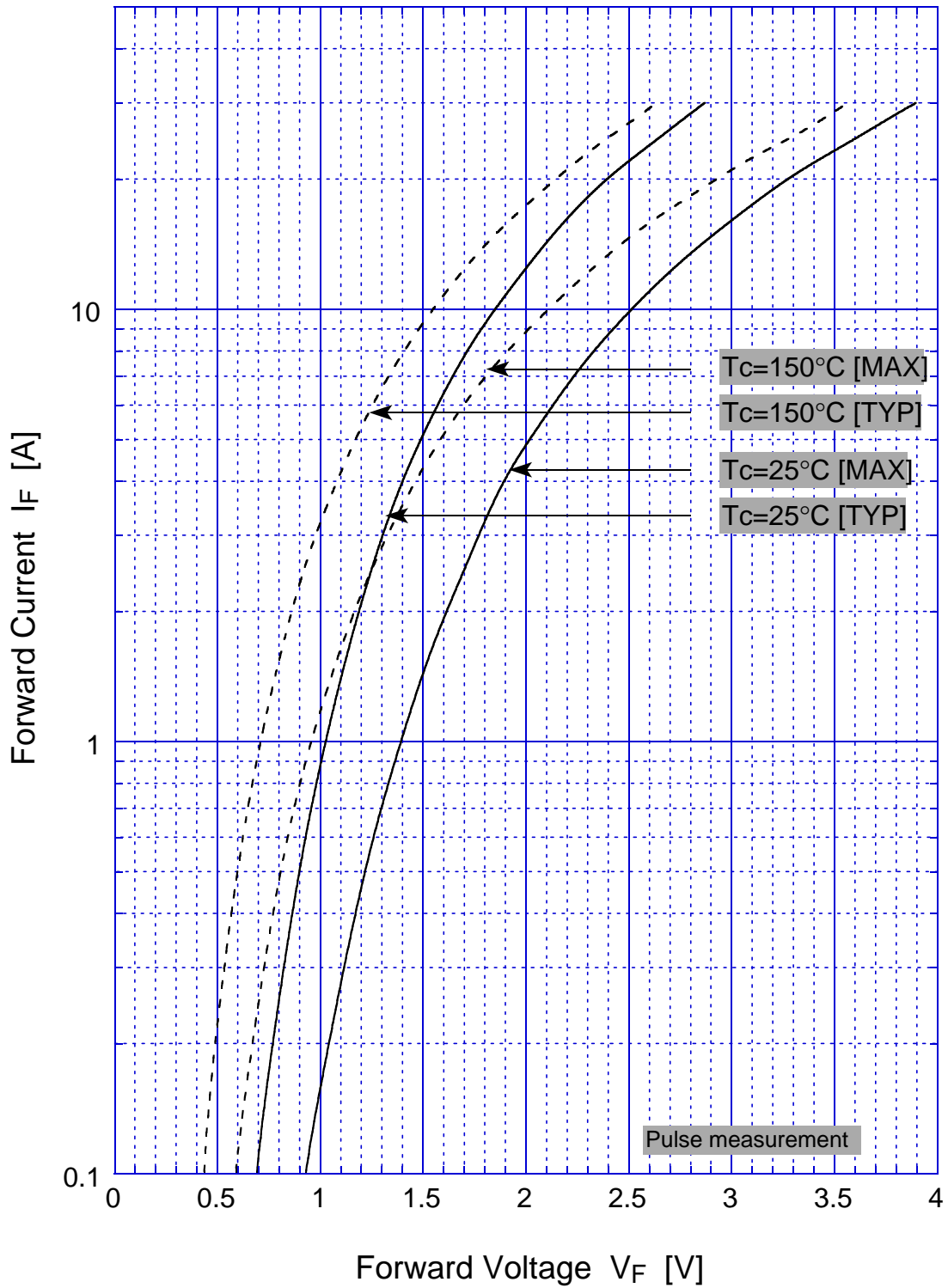
| Item                              | Symbol           | Conditions   | Ratings | Unit |
|-----------------------------------|------------------|--|---------|------|
| Storage Temperature               | T <sub>stg</sub> |  | -55~150 | °C   |
| Operating Junction Temperature    | T <sub>j</sub>   |  | 150     | °C   |
| Maximum Reverse Voltage           | V <sub>RM</sub>  |  | 600     | V    |
| Average Rectified Forward Current | I <sub>O</sub>   | 50Hz sine wave, R-load, Tc=57°C                            | 5       | A    |
| Peak Surge Forward Current        | I <sub>FSM</sub> | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 60      | A    |

#### ● Electrical Characteristics (If not specified Tc=25°C)

| Item                  | Symbol          | Conditions  | Ratings  | Unit |
|-----------------------|-----------------|---|----------|------|
| Forward Voltage       | V <sub>F</sub>  | I <sub>F</sub> =5A, Pulse measurement               | Max.2.00 | V    |
| Reverse Current       | I <sub>R</sub>  | V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement | Max.10   | μA   |
| Reverse Recovery Time | trr             | I <sub>F</sub> =0.5A, I <sub>R</sub> =1A            | Max.50   | ns   |
| Thermal Resistance    | θ <sub>jc</sub> | junction to case                                    | Max.12   | °C/W |

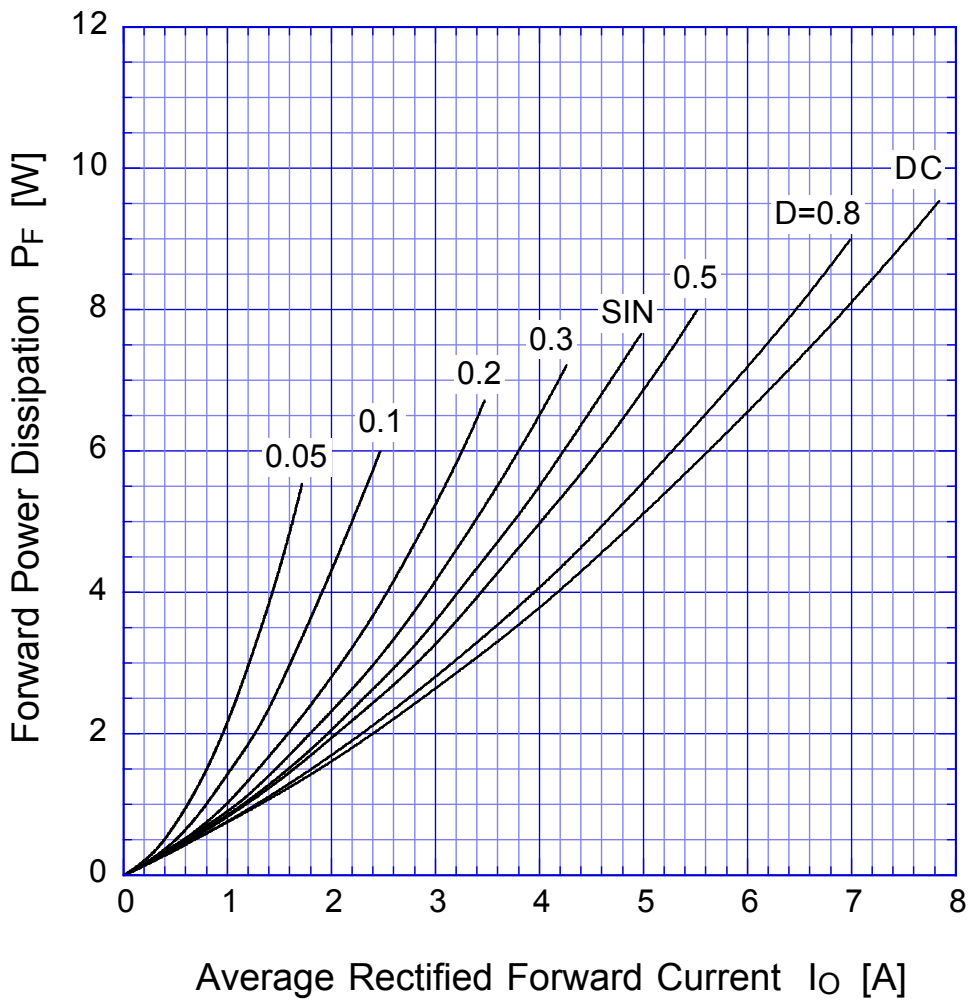
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Forward Voltage

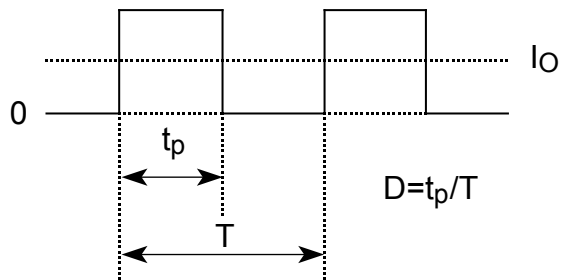


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## Forward Power Dissipation

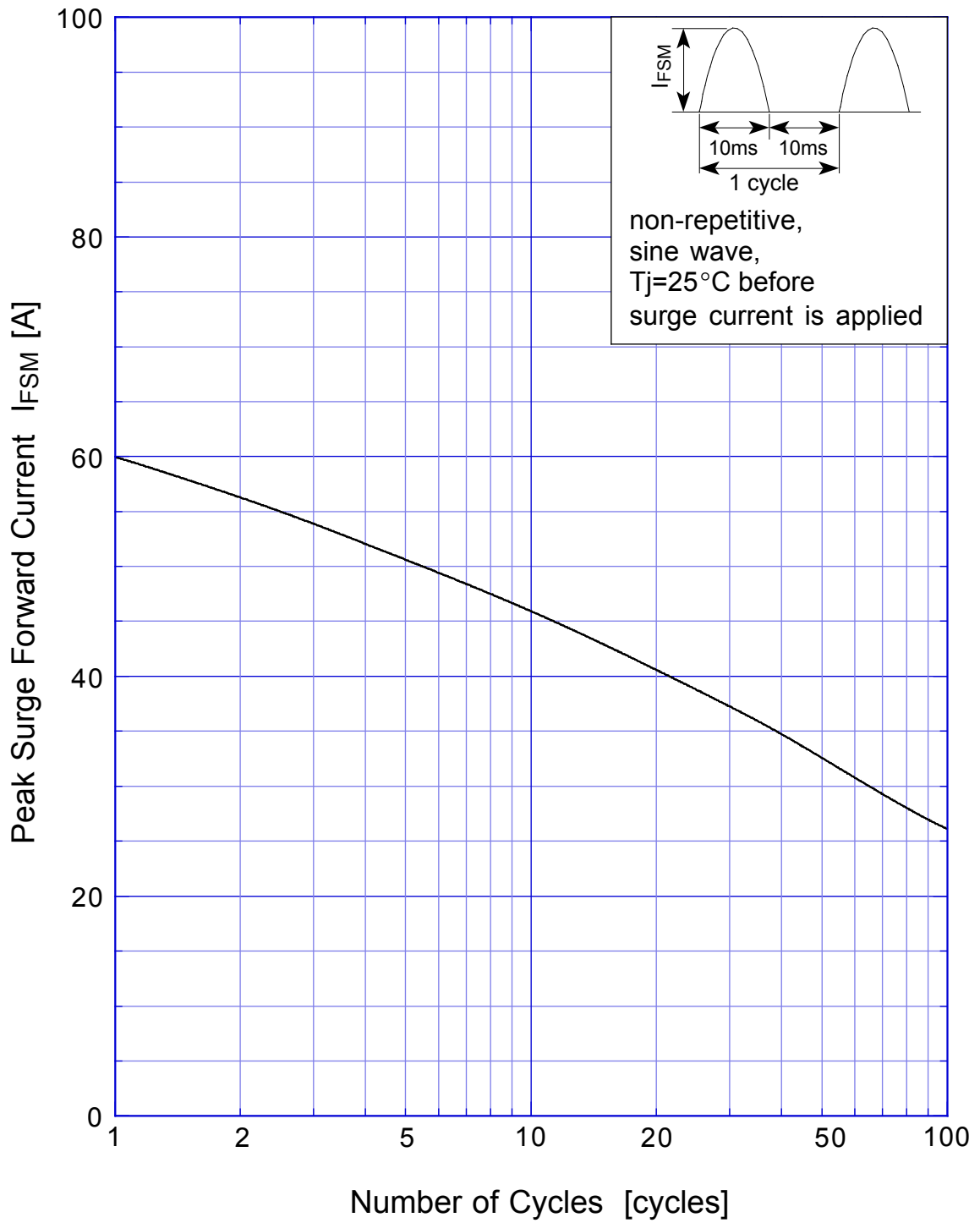


$T_j = 150^\circ\text{C}$



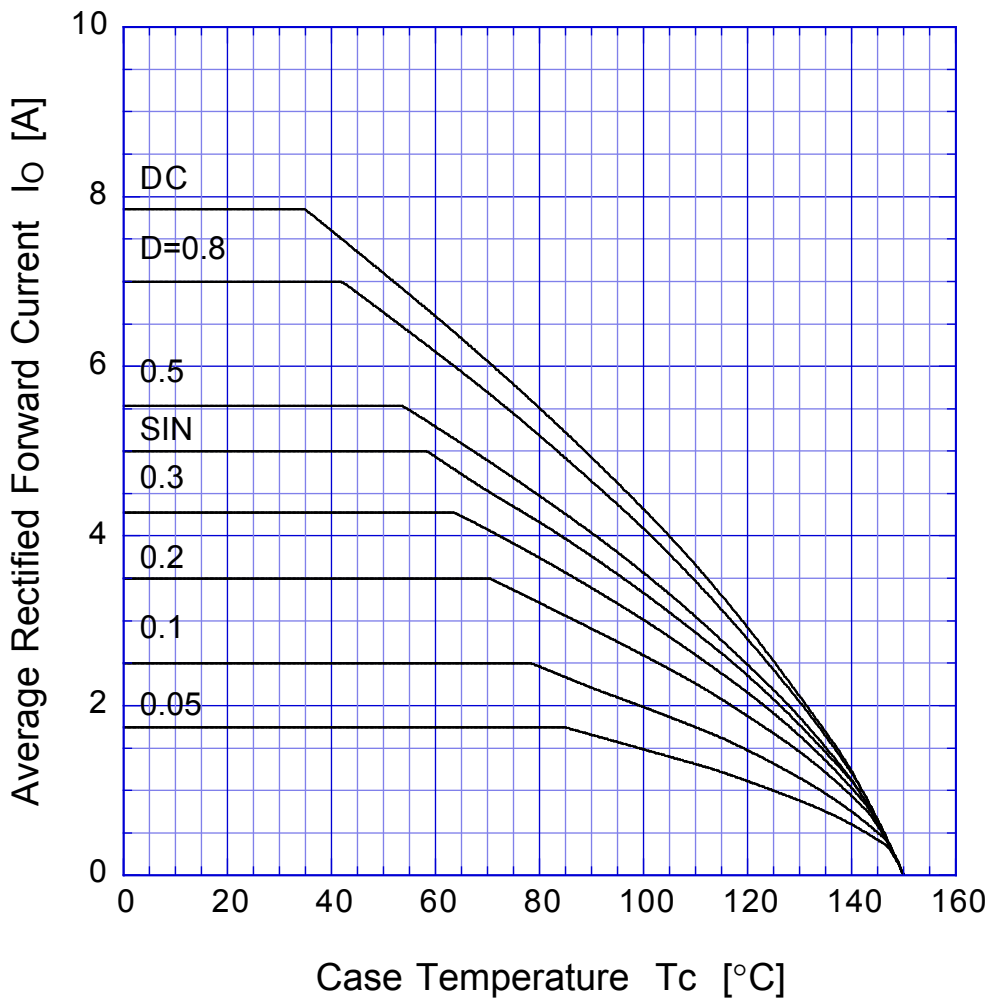
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## Peak Surge Forward Capability



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# Derating Curve



$V_R = 300V$



# DE5L60 Junction Capacitance

