

SHINDENGEN

General Purpose Rectifiers

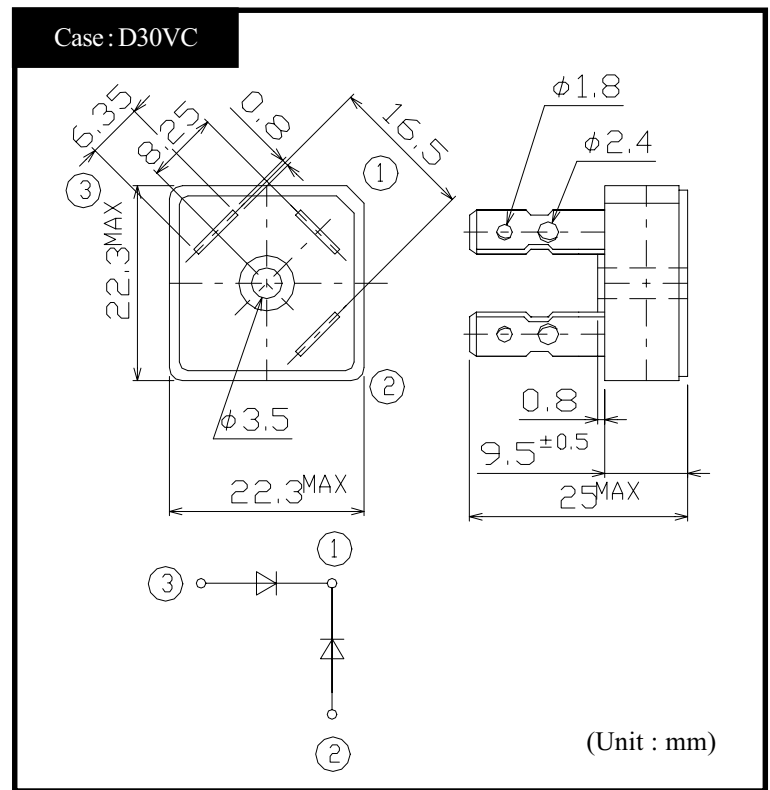
Center-tap

Dual Modules

D30VC60

600V 30A

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

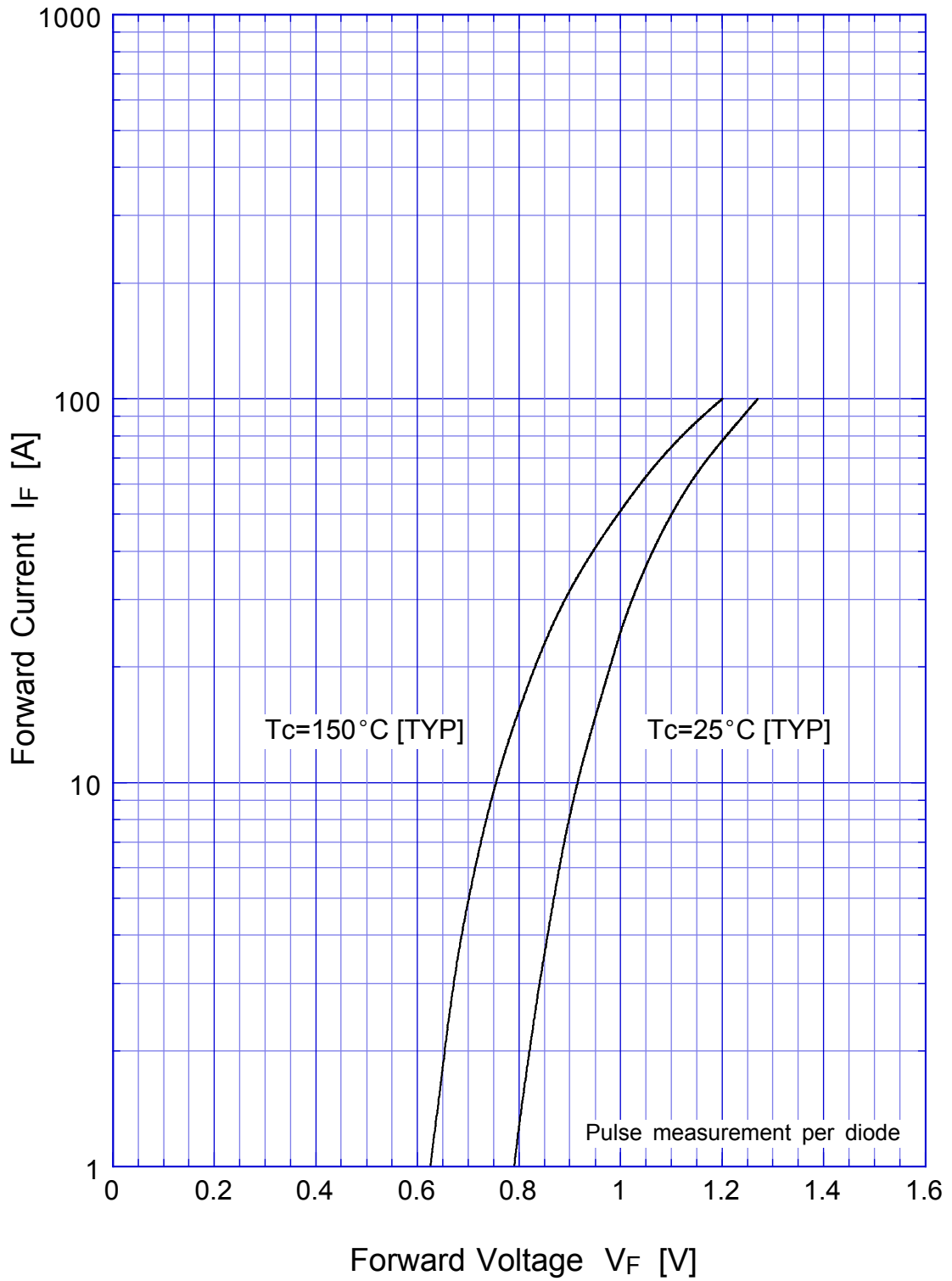
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|-----------|--|---------|----------------------|
| Storage Temperature | T_{stg} | | -40~150 | °C |
| Operating Junction Temperature | T_j | | 150 | °C |
| Maximum Reverse Voltage | V_{RM} | | 600 | V |
| Average Rectified Forward Current | I_O | 50Hz sine wave, R-load With heatsink $T_c=124^\circ\text{C}$ | 30 | A |
| Peak Surge Forward Current | I_{FSM} | 50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25^\circ\text{C}$ | 300 | A |
| Current Squared Time | I^2t | $1\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$ | 300 | A^2s |
| Dielectric Strength | V_{dis} | Terminals to case, AC 1 minute | 2 | kV |
| Mounting Torque | TOR | (Recommended torque : 0.5N·m) | 0.8 | N·m |

● Electrical Characteristics ($T_c=25^\circ\text{C}$)

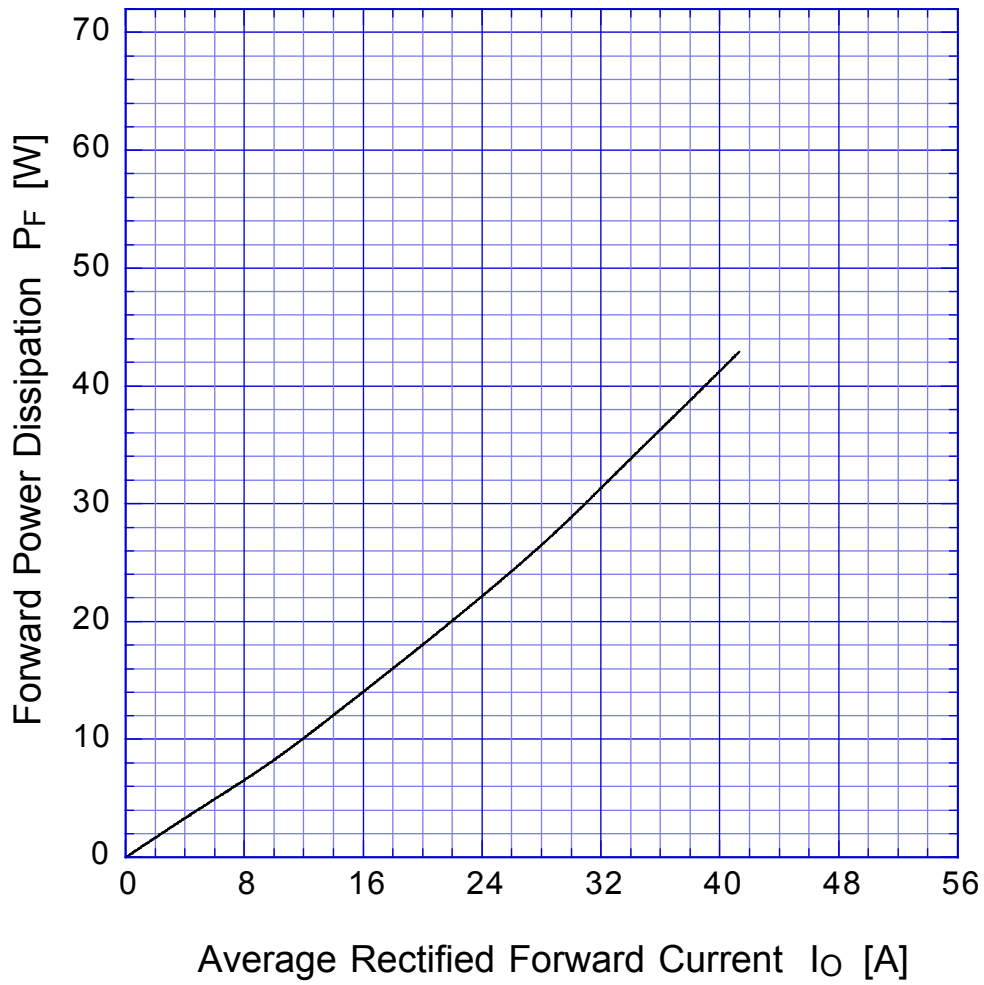
| Item | Symbol | Conditions | Ratings | Unit |
|--------------------|---------------|---|----------|---------------|
| Forward Voltage | V_F | $I_F=15\text{A}$, Pulse measurement, Rating of per diode | Max.1.05 | V |
| Reverse Current | I_R | $V_R=V_{RM}$, Pulse measurement, Rating of per diode | Max.10 | μA |
| Thermal Resistance | θ_{jc} | junction to case | Max.0.9 | °C/W |

D30VC60

Forward Voltage



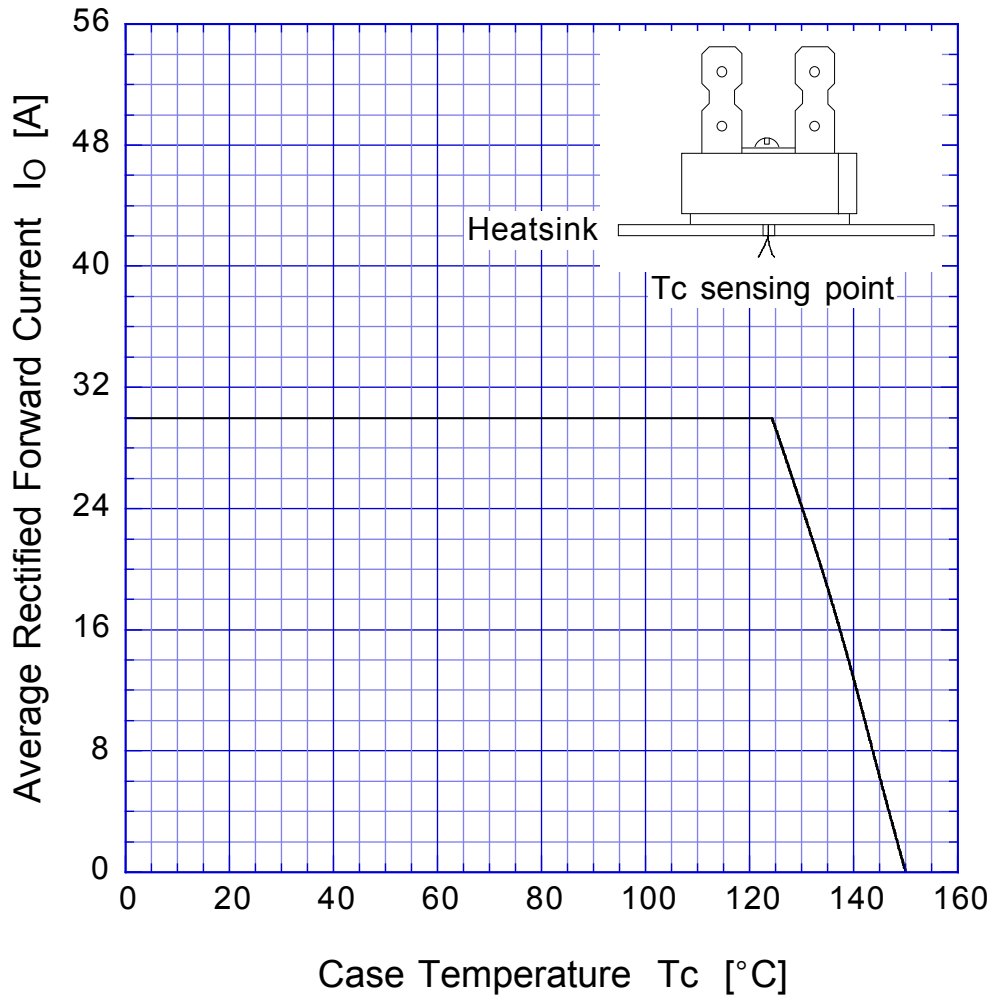
D30VC60 Forward Power Dissipation



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

D30VC60

Derating Curve



Sine wave
R-load

D30VC60

Peak Surge Forward Capability

