

SHINDENGEN

Super Fast Recovery Rectifiers

Single

S16L60

600V 16A

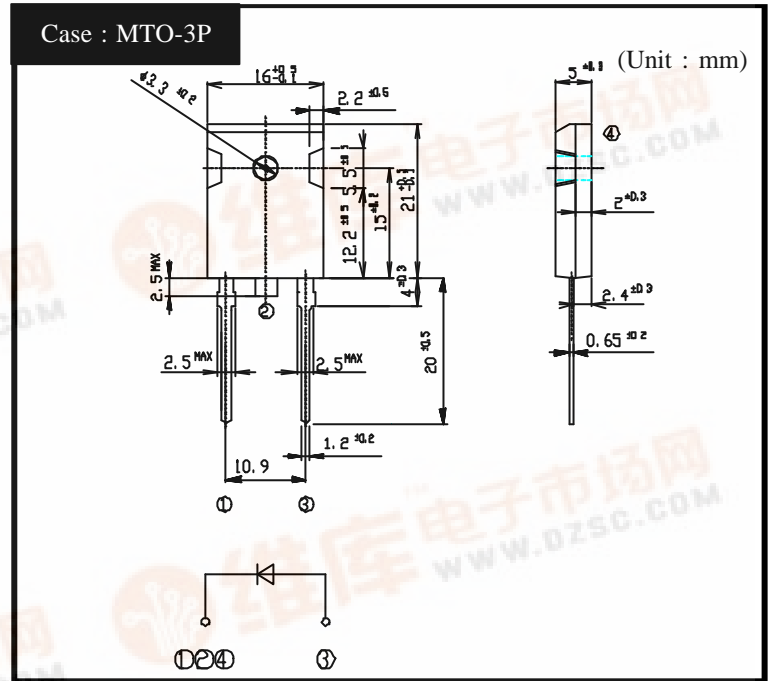
FEATURES

- High Voltage
- trr100ns
- Small jc

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tc=25)

| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|------------------|--|-----------|------|
| Storage Temperature | Tstg | | -55 ~ 150 | |
| Operating Junction Temperature | Tj | | 150 | |
| Maximum Reverse Voltage | V _{RM} | | 600 | V |
| Average Rectified Forward Current | I _o | 50Hz sine wave, R-load, Tc=122 | 16 | A |
| Peak Surge Forward Current | I _{FSM} | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25 | 300 | A |
| Mounting Torque | TOR | (Recommended torque 0.5N·m) | 0.8 | N·m |

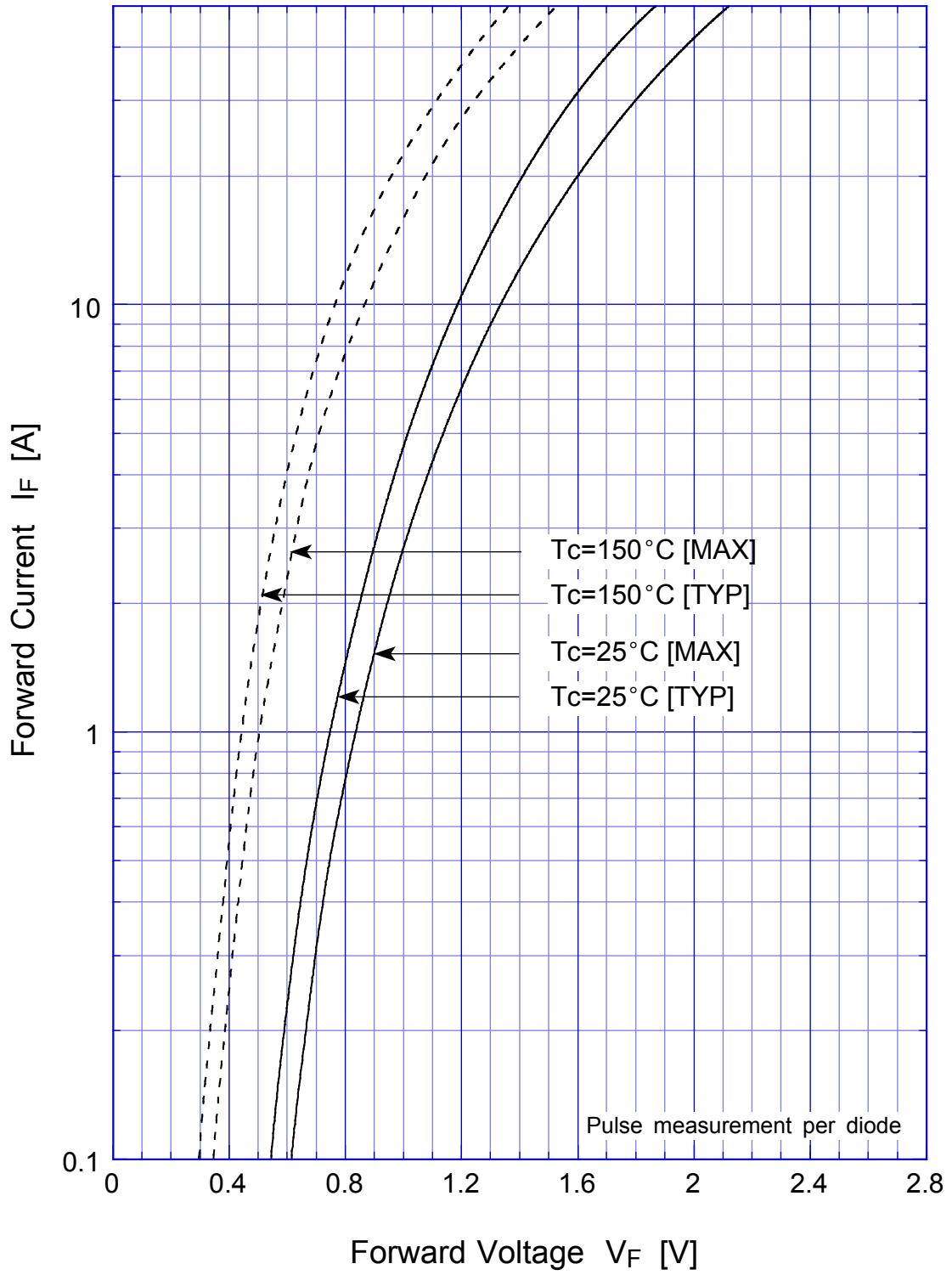
Electrical Characteristics (If not specified Tc=25)

| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------|----------------|---|---------|------|
| Forward Voltage | V _F | I _F =16A, Pulse measurement | Max.1.5 | V |
| Reverse Current | I _R | V _R =V _{RM} , Pulse measurement | Max.25 | μA |
| Reverse Recovery Time | trr | I _F =0.5A, I _R =1A | Max.100 | ns |
| Thermal Resistance | jc | junction to case | Max.1.1 | /W |



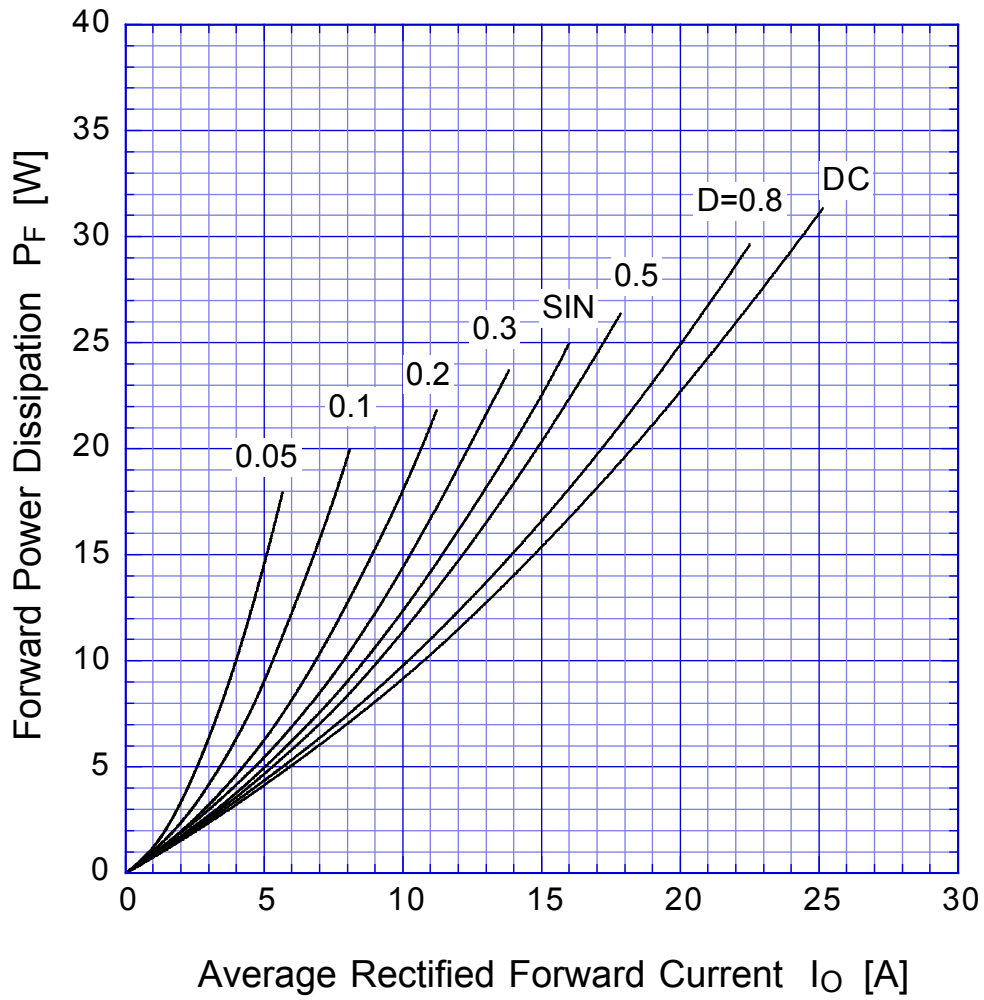
S16L60

Forward Voltage

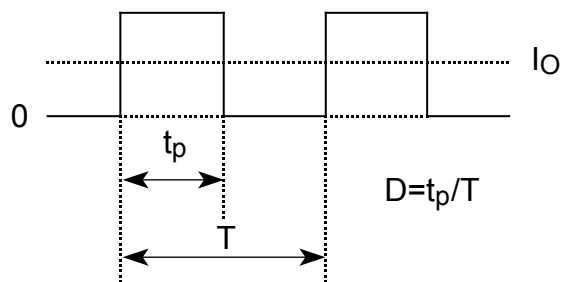


S16L60

Forward Power Dissipation

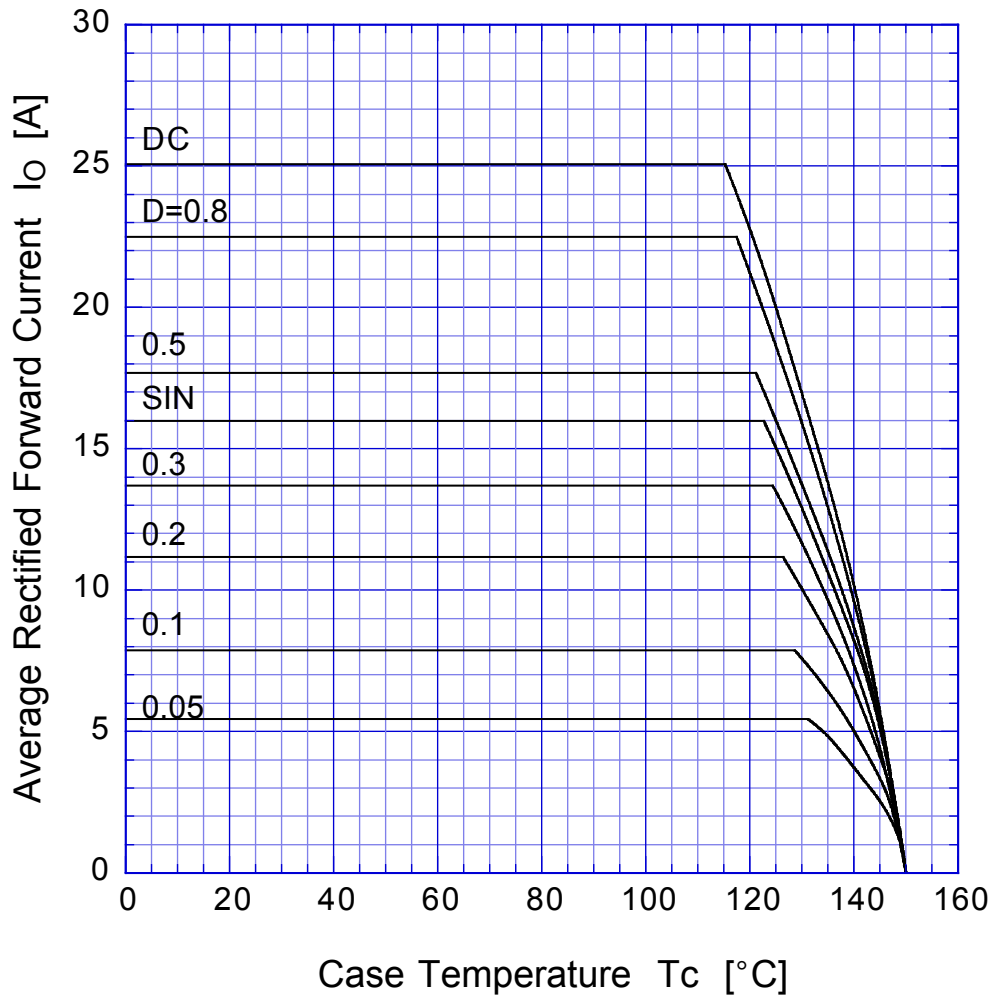


$T_j = T_{jmax}$

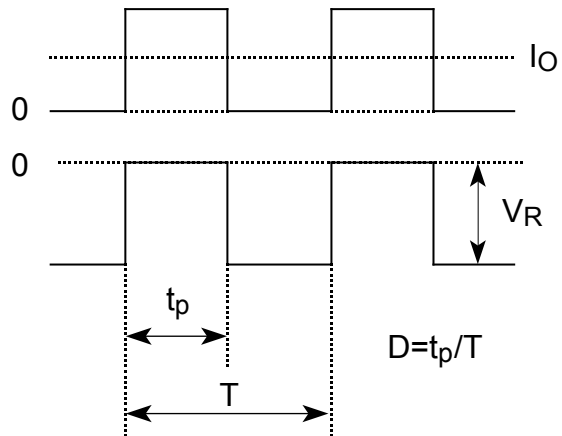


S16L60

Derating Curve

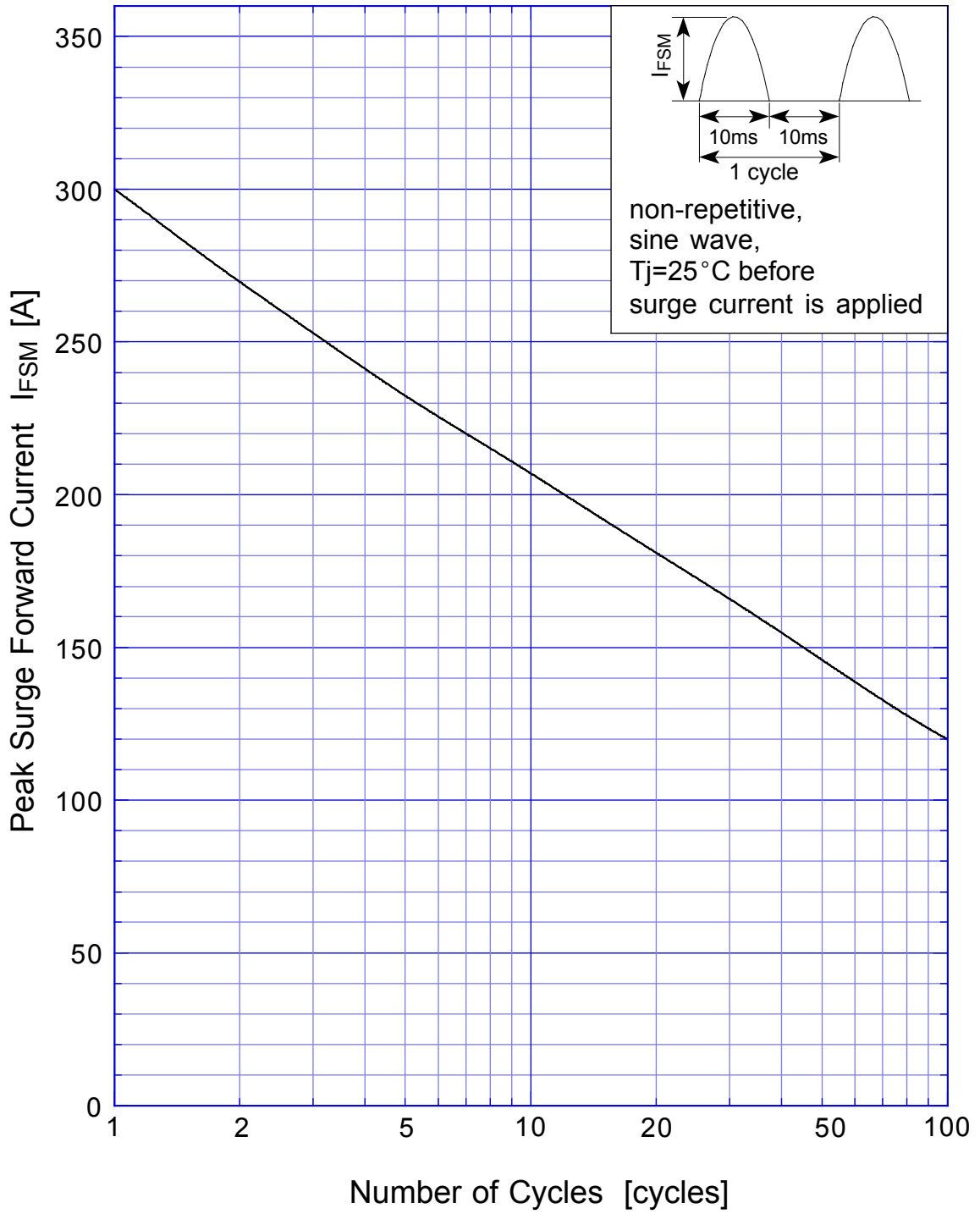


$$V_R = V_{RM}$$



S16L60

Peak Surge Forward Capability



S16L60 Junction Capacitance

