

D4L20U

200V 4A

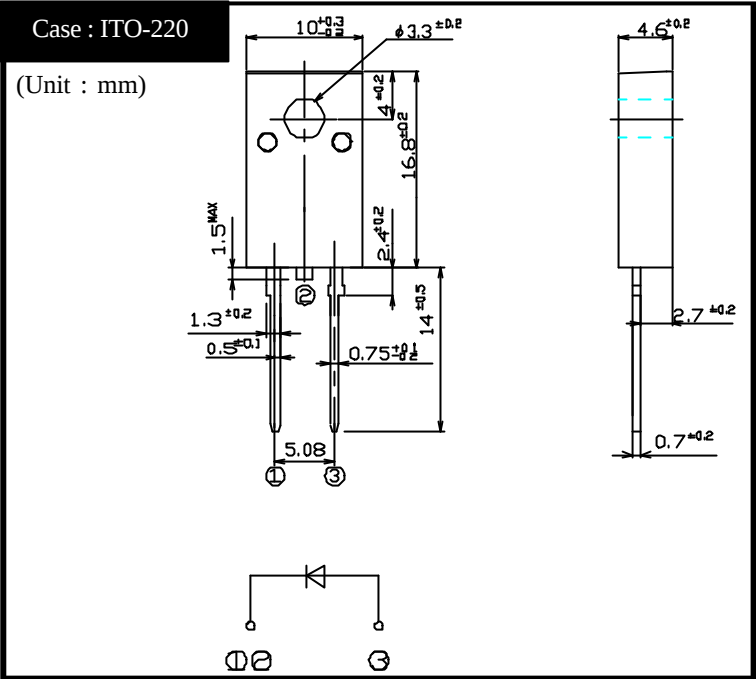
FEATURES

- Low noise
- trr35ns
- Fully Isolated Molding

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

- Absolute Maximum Ratings (If not specified Tc=25 )

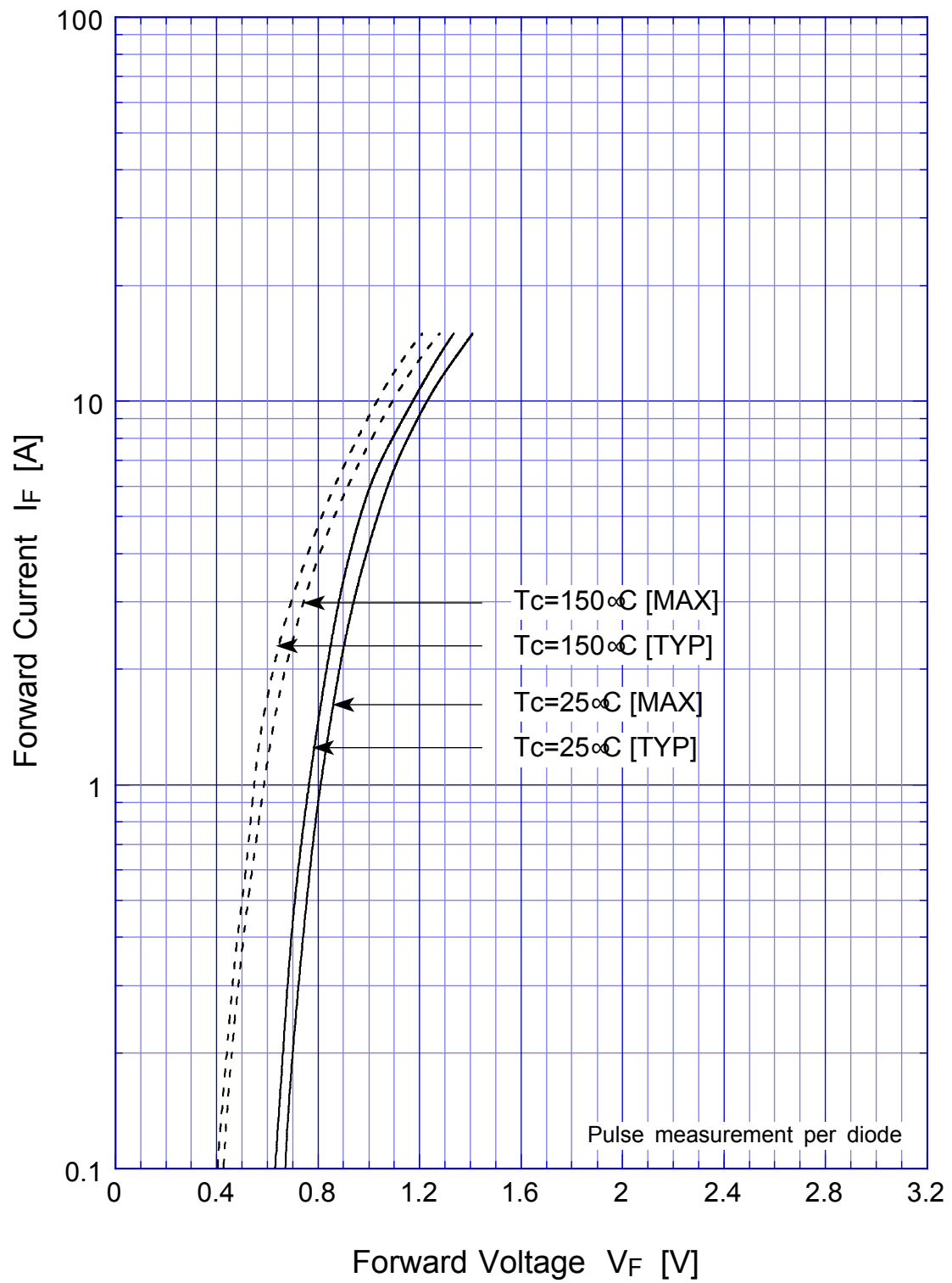
| Item                              | Symbol           | Conditions                                               | Ratings   | Unit |
|-----------------------------------|------------------|----------------------------------------------------------|-----------|------|
| Storage Temperature               | Tstg             |                                                          | -40 ~ 150 |      |
| Operating Junction Temperature    | Tj               |                                                          | 150       |      |
| Maximum Reverse Voltage           | V <sub>RM</sub>  |                                                          | 200       | V    |
| Average Rectified Forward Current | I <sub>o</sub>   | 50Hz sine wave, R-load, Tc=130                           | 4         | A    |
| Peak Surge Forward Current        | I <sub>FSM</sub> | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25 | 60        | A    |
| Dielectric Strength               | V <sub>dis</sub> | Terminals to case, AC 1 minute                           | 1.5       | kV   |
| Mounting Torque                   | TOR              | (Recommended torque :0.3N·m)                             | 0.5       | N·m  |

- Electrical Characteristics (If not specified Tc=25 )

| Item                  | Symbol         | Conditions                                          | Ratings  | Unit |
|-----------------------|----------------|-----------------------------------------------------|----------|------|
| Forward Voltage       | V <sub>F</sub> | I <sub>F</sub> =4A, Pulse measurement               | Max.0.98 | V    |
| Reverse Current       | I <sub>R</sub> | V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement | Max.10   | μ A  |
| Reverse Recovery Time | trr            | I <sub>F</sub> =0.5A, I <sub>R</sub> =1A            | Max.35   | ns   |
| Thermal Resistance    | θ jc           | junction to case                                    | Max.4.5  | /W   |

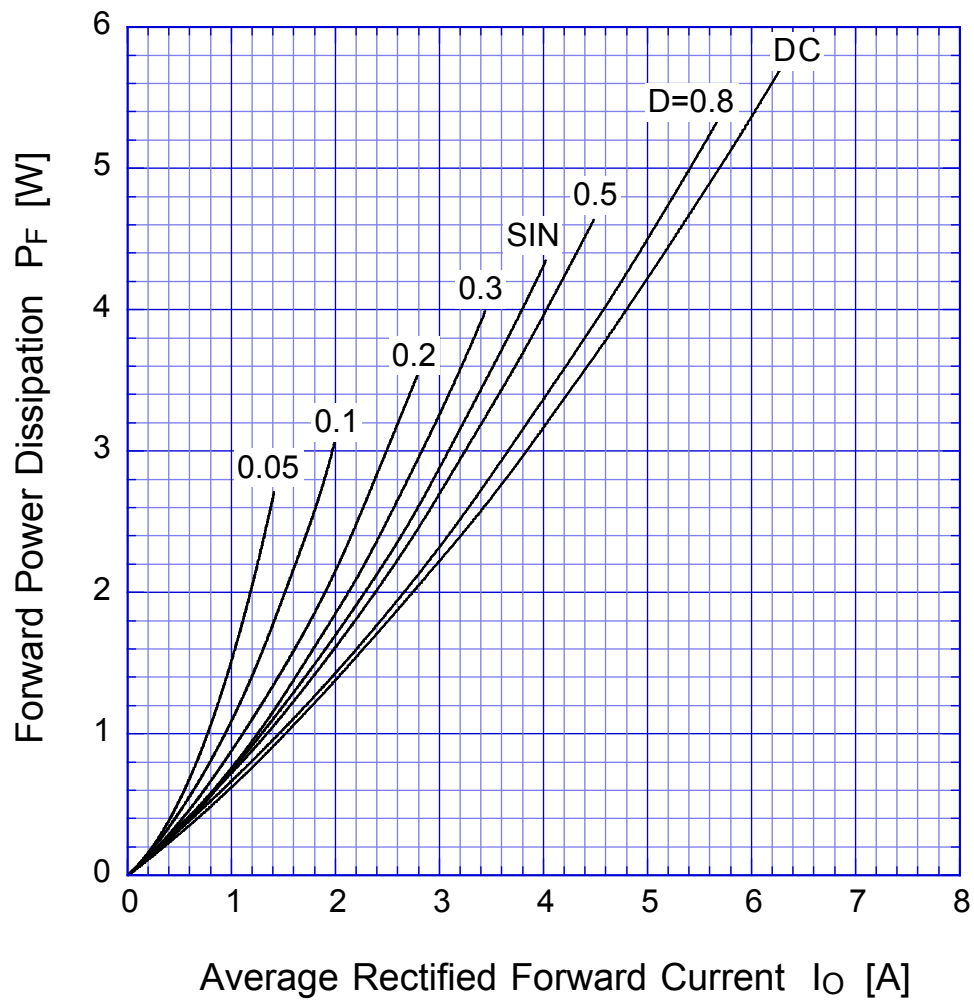
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Forward Voltage

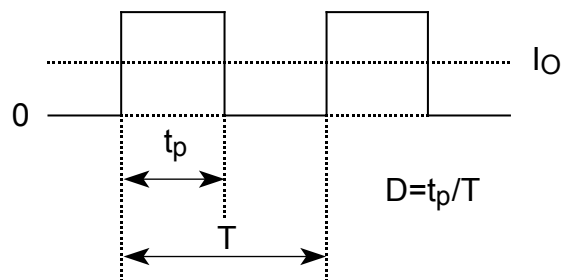


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Forward Power Dissipation

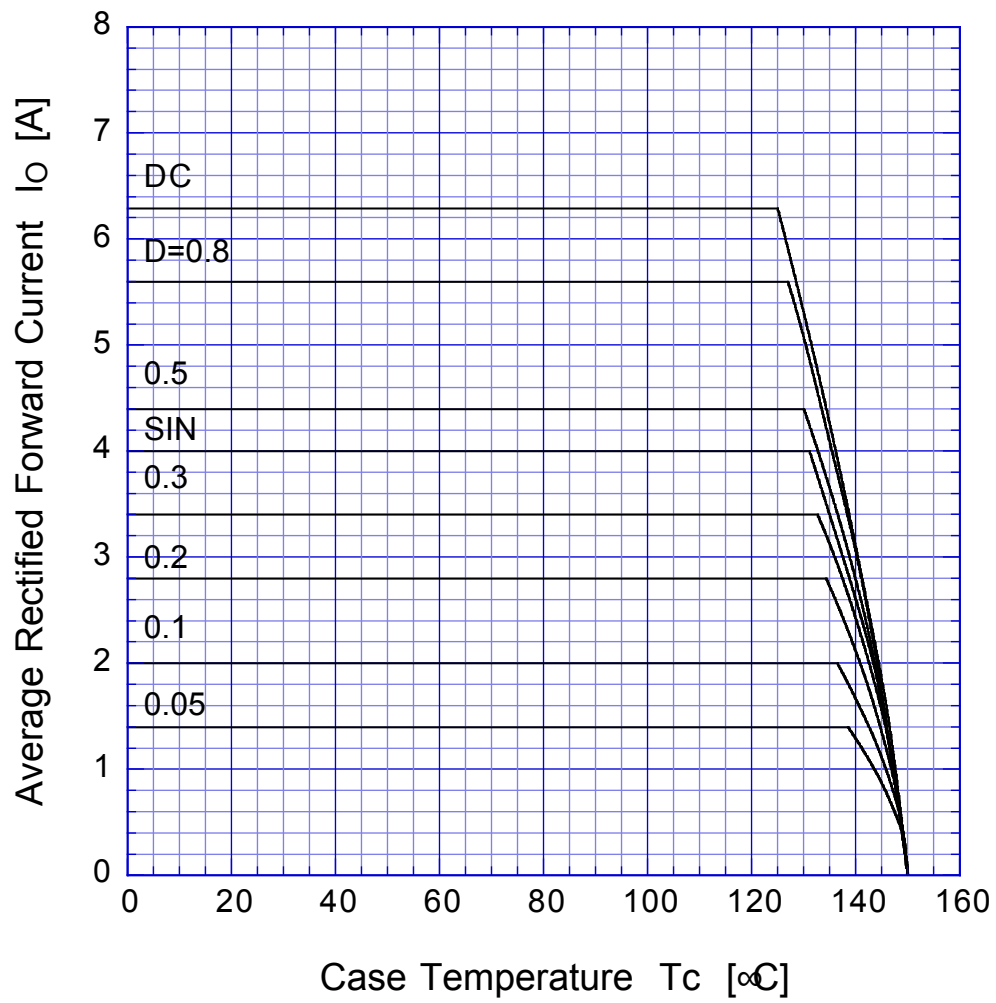


$T_j = T_{jmax}$

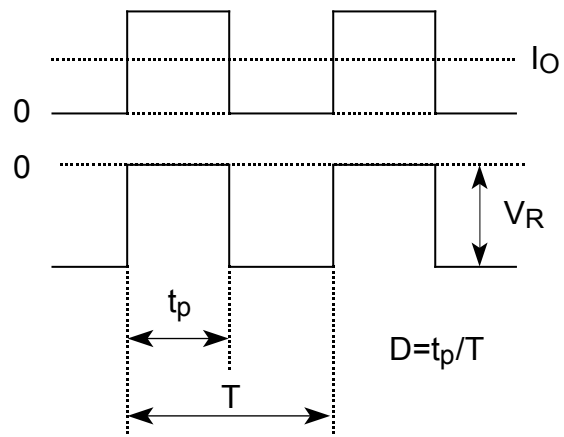


# D4L20U

## Derating Curve

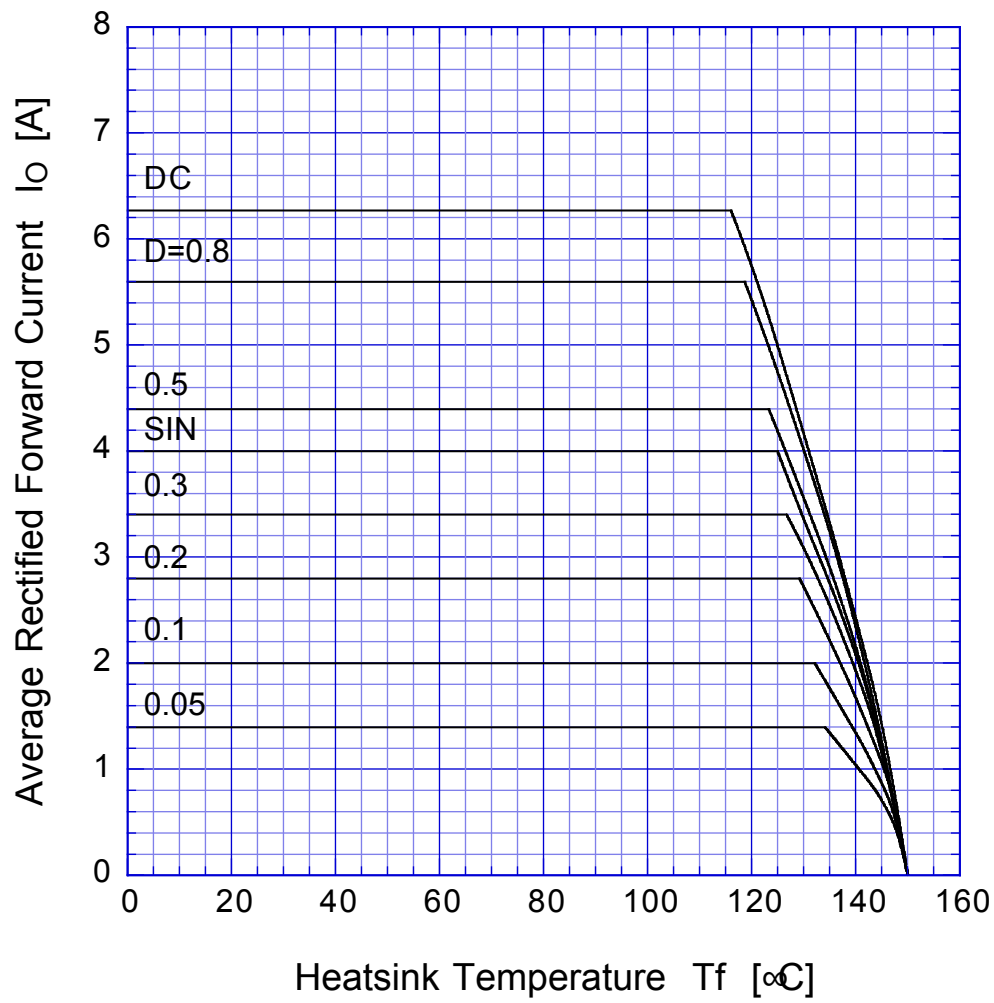


$$V_R = V_{RM}$$

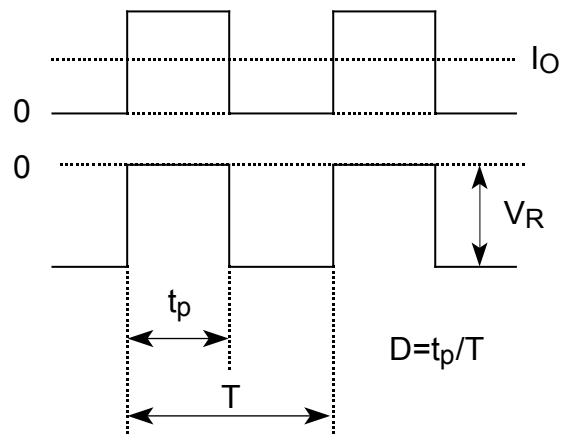


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## Derating Curve

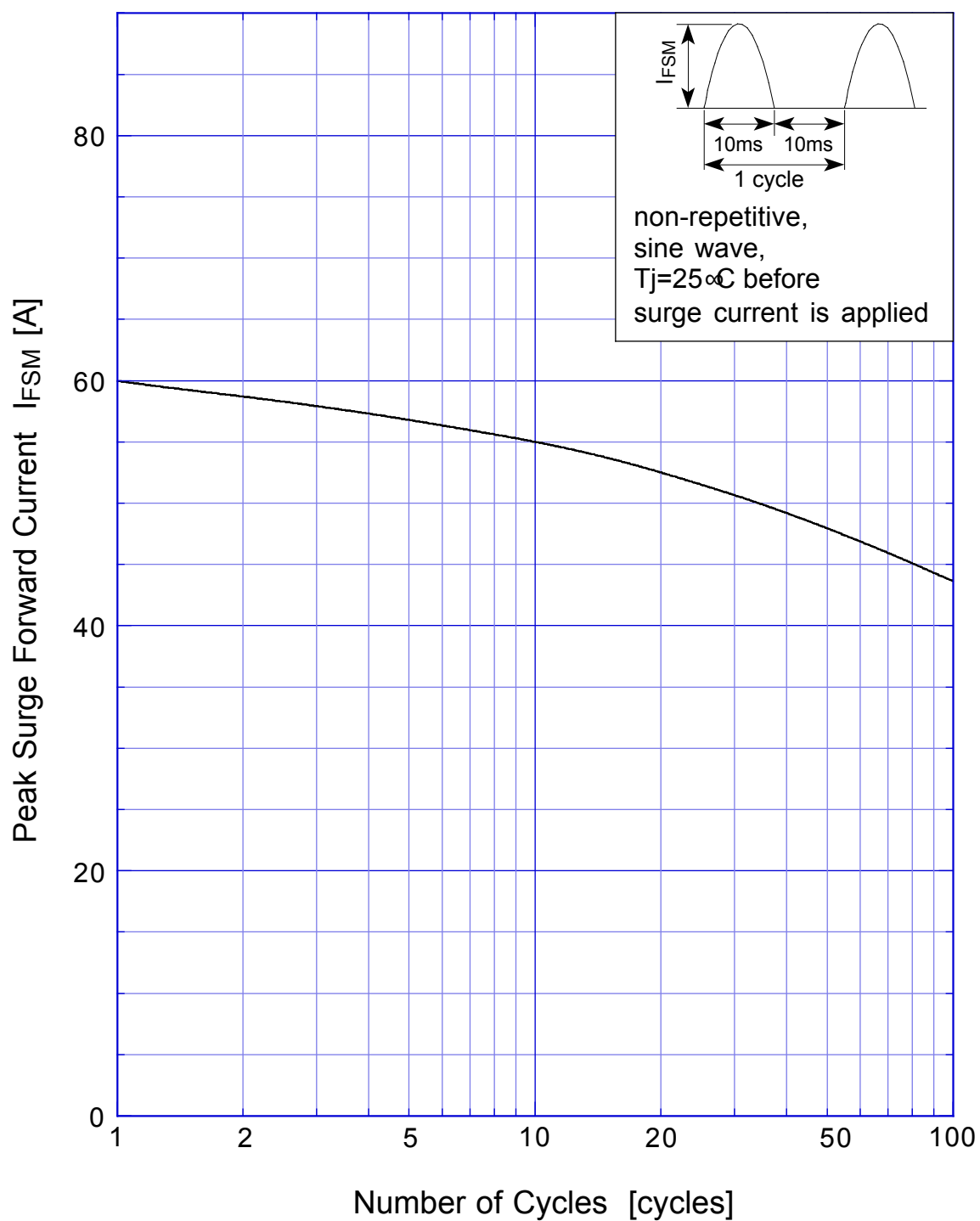


$$V_R = V_{RM}$$



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## Peak Surge Forward Capability



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