

INTERNATIONAL



Insel Rectifiers (India) Pvt. Ltd.

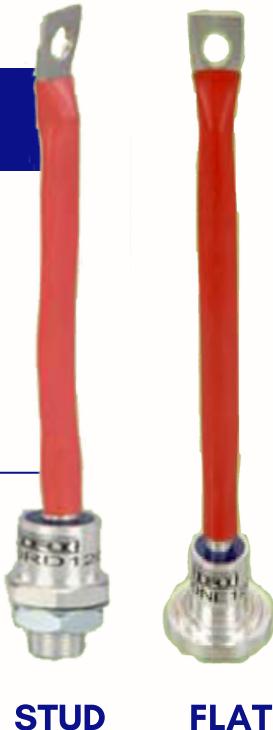
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POWER DIODE 200ND/RD, 200NE/RE

FEATURES

- Available in Normal & Reverse Polarity
- All Diffused Series
- Industrial Grade
- Available in Avalanche Characteristic



STUD

FLAT

DO 8

TYPICAL APPLICATIONS

- Power Supplies
- Machine Tool Controls
- Battery Chargers
- Welders

POWER DIODE**200ND/RD,
200NE/RE****TECHNICAL DATA****DEVICE TYPE****V_{RRM}
(V)****V_{RSM}
(V)**

200ND/RD40 200NE/RE40	400	500
200ND/RD120 200NE/RE120	1200	1300
200ND/RD160 200NE/RE160	1600	1700

SYMBOL**CONDITIONS****VALUES**

I _{F(AV)}	Maximum average forward Current T _c = 130°C	200A
V _{FM}	Maximum peak forward Voltage drop @ Rated I _{F(Peak)}	1.35 V
I _{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	3650 A
I ² t	Max. I ² t rating (non-rep.) for 10 msec	66600 A ² Sec
I _{RRM}	Peak reverse current at T _{vj} = 175°C	22 mA
V ₀ R ₀	T _{vj} =max T _{vj} =max	0.81 V 0.84 mΩ
R _{th(j-c)} R _{th(c-h)} T _{vj} T _{stg}	Maximum thermal resistance (Junction to case) Maximum thermal resistance (Case to heat sink)(ND,RD) Maximum thermal resistance (Case to heat sink)(NE,RE) Junction temperature Storage temperature	0.25 °C/W 0.10 °C/W 0.07 °C/W 200 °C 200 °C
Mounting torque		10 Nm
Weight	Approx.	150 gms
Package Outline		D,E

POWER DIODE
200ND/RD,
200NE/RE

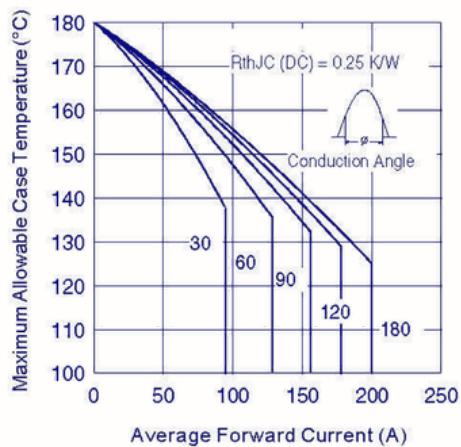


FIG. 1 current ratings characteristics



FIG. 2 current ratings characteristics

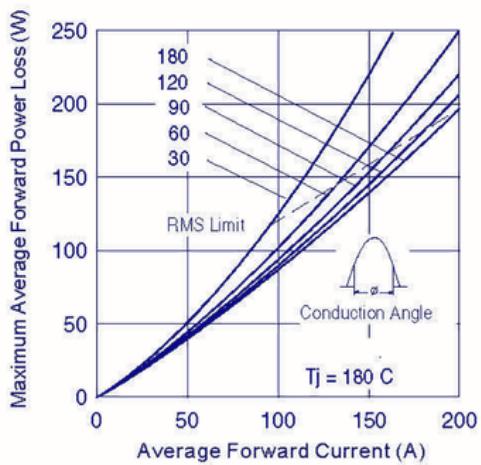
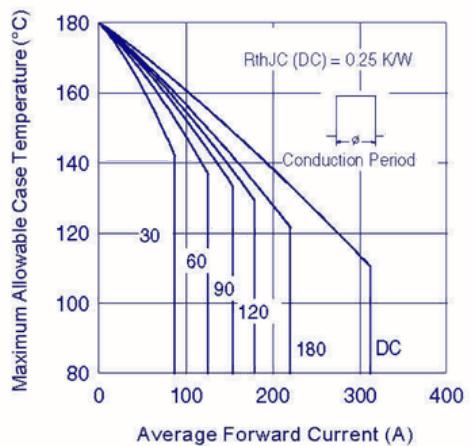


FIG. 3 forward power loss characteristics

POWER DIODE
200ND/RD,
200NE/RE

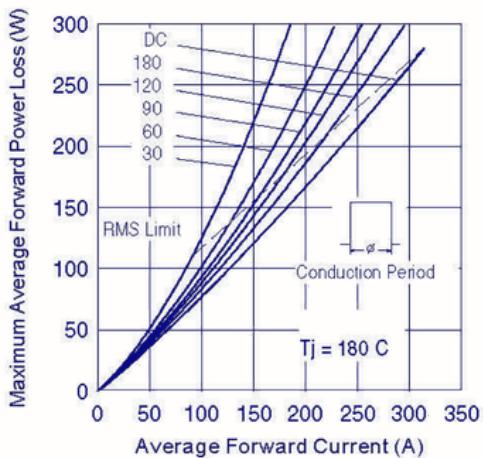


Fig. 4 - Forward Power Loss Characteristics



FIG. 4 forward power loss characteristics

FIG. 5 maximum non-repetitive surge current

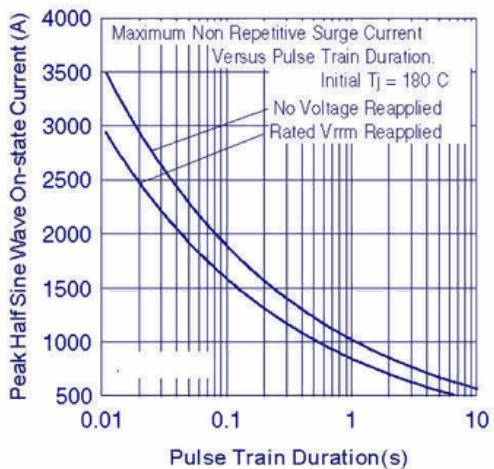
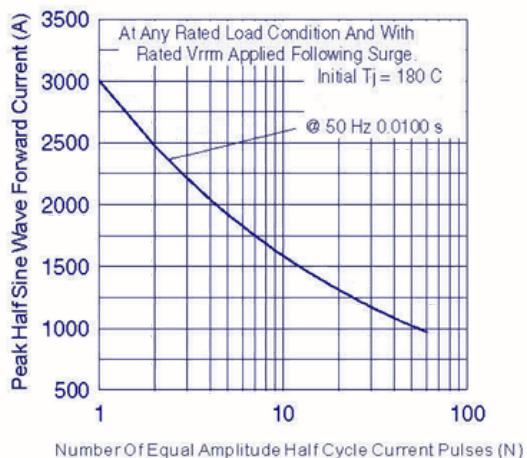


FIG. 6 maximum non-repetitive surge current

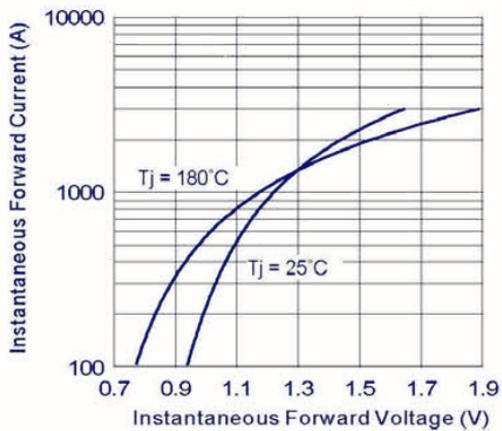
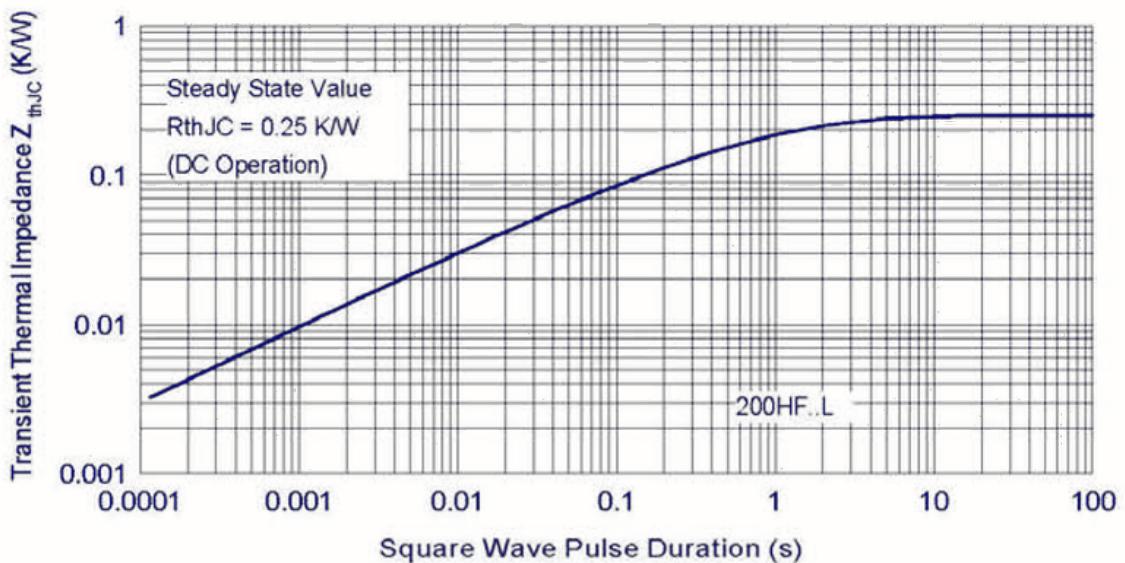


FIG. 7 forward voltage drop characteristics

FIG. 8 thermal impedance Z_{thJC} characteristic

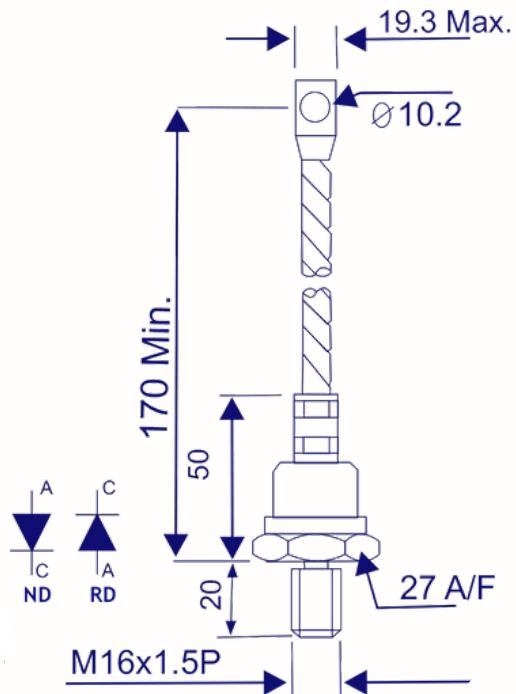


POWER DIODE
200ND/RD,
200NE/RE

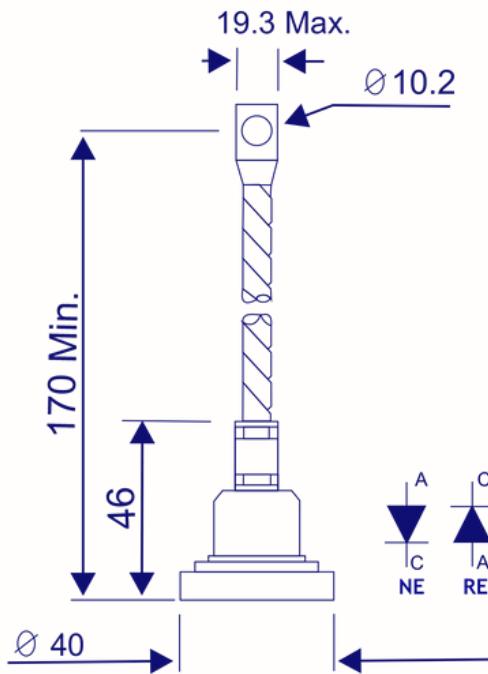
PACKAGE OUTLINE



200ND/200RD



200NE/200RE



all dimensions in mm