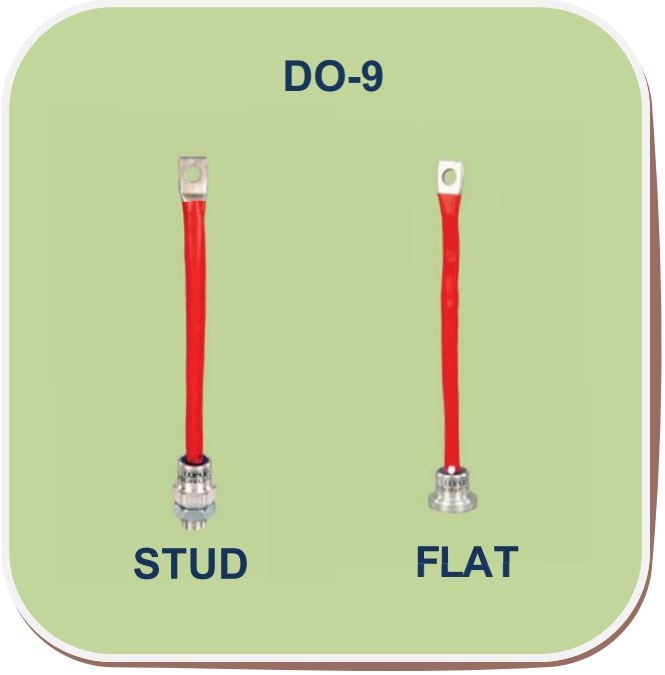
INTERNATIONAL IRI

POWER DIODE

250NG/250RG,250NF/250RF

FEATURES

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



TYPICAL APPLICATIONS

- Power supplies
- Machine tool controls
- Battery chargers
- Welders

TECHNICAL DATA

DEVICE TYPE	V_{RRM} (V)	V_{RSM} (V)
250NG40/250RG40 250NF40/250RF40	400	500
250NG120/250RG120 250NF120/250RF120	1200	1300
250NG160/250RG160 250NF160/250RF160	1600	1700

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current T_C = 130^{0}C	250A
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	4500 A
I^2t	Max. I^2t rating (non-rep.) for 10 msec	92500 A^2Sec
I_{RRM}	Peak reverse current at T_{vj} = 175^{0}C	40 mA
V_0 R_0	Tvj=max Tvj=max	0.85 V 0.60 mΩ
$R_{th(j-c)}$ $R_{th(c-h)}$ $R_{th(c-h)}$ Tvj Tstg	Maximum thermal resistance (Junction to case) Maximum thermal resistance (Case to heat sink)(NG,RG) Maximum thermal resistance (Case to heat sink)(NF,RF) Junction temperature Storage temperature	0.18 °C/W 0.08 °C/W 0.05 °C/W 200 °C 200 °C
Mounting torque		30 Nm
Weight	Approx.	260 gms
Package Outline		G,F

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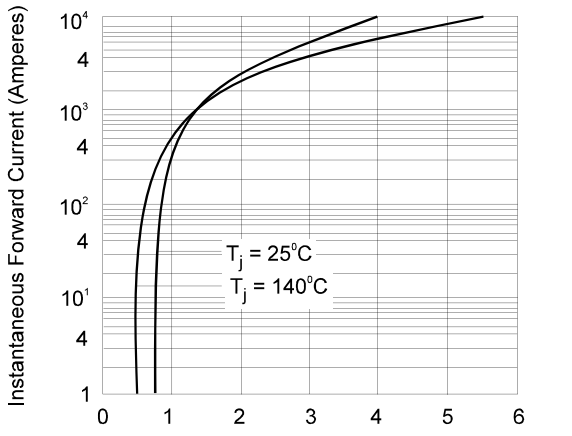


Fig. 1 - Forward Voltage Drop Vs. Forward Current

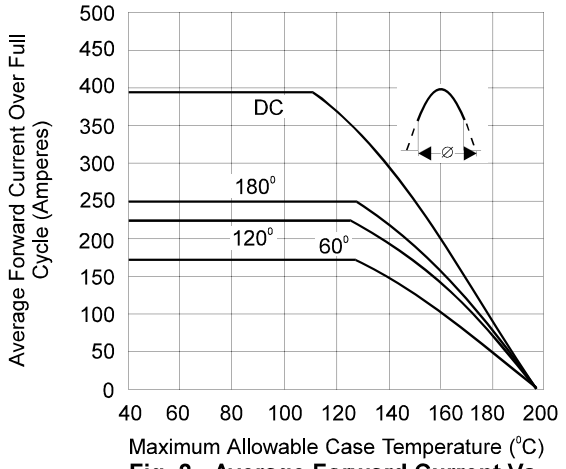


Fig. 2 - Average Forward Current Vs. Case Temperature

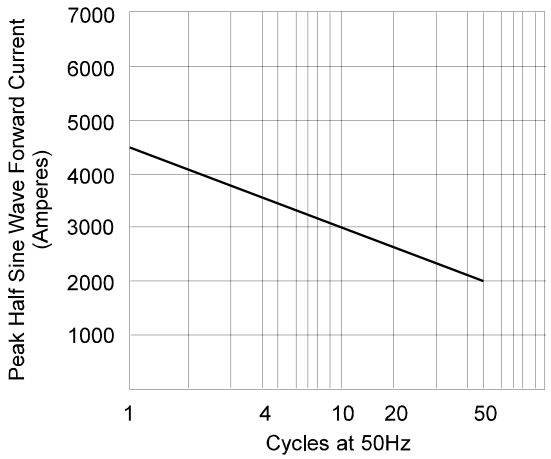


Fig. 3 - Maximum Non Recurrent Surge Current

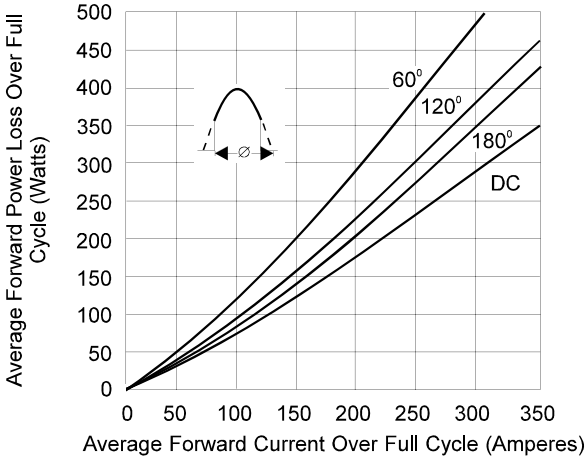


Fig. 4 - Maximum Forward Power Loss Vs. Forward Current

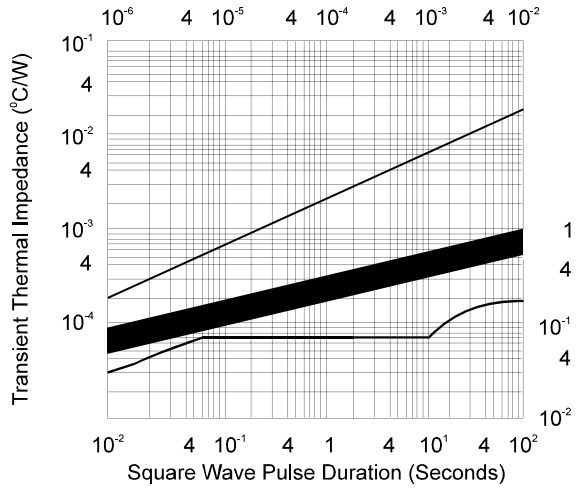


Fig. 5 - Transient Thermal Impedance

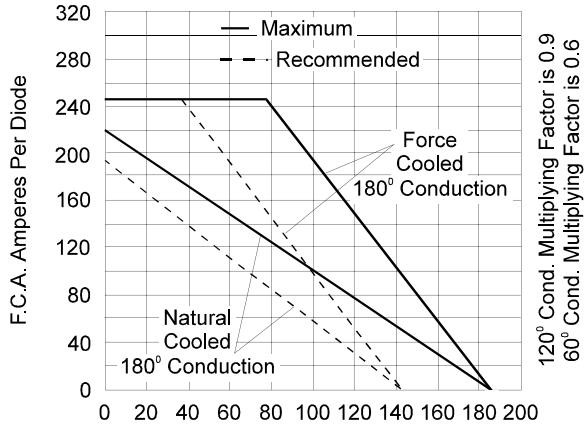
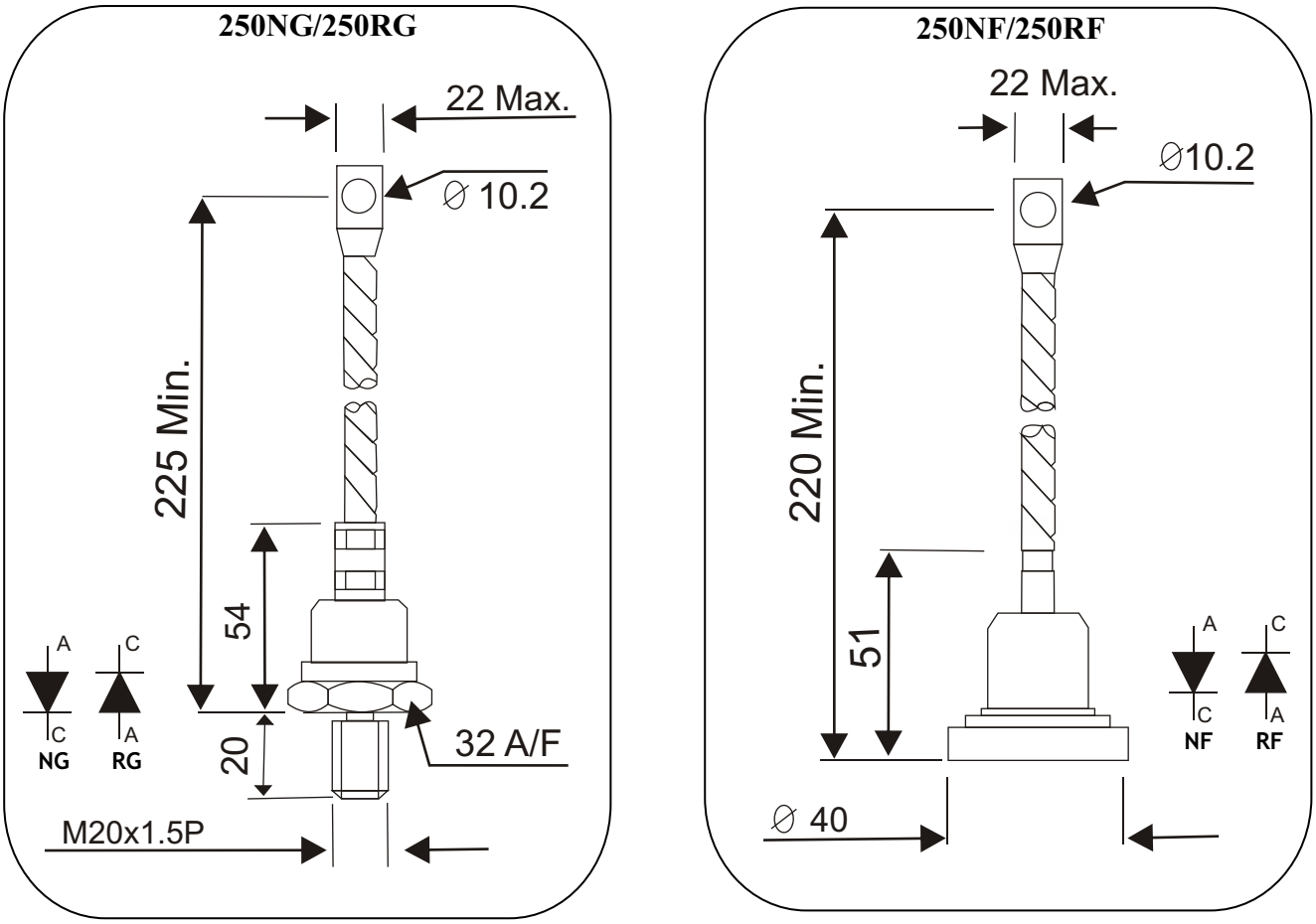


Fig. 6 - Diode Mounted on Heat Sink Type K5 with θHA-NC 0.55° C/W, FC 0.13°C/W

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PACKAGE OUTLINE



All dimensions are in mm.

Insel Rectifiers (India) Pvt. Ltd.

(An ISO 9001:2015, ISO 14001:2015 Certified Company)

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