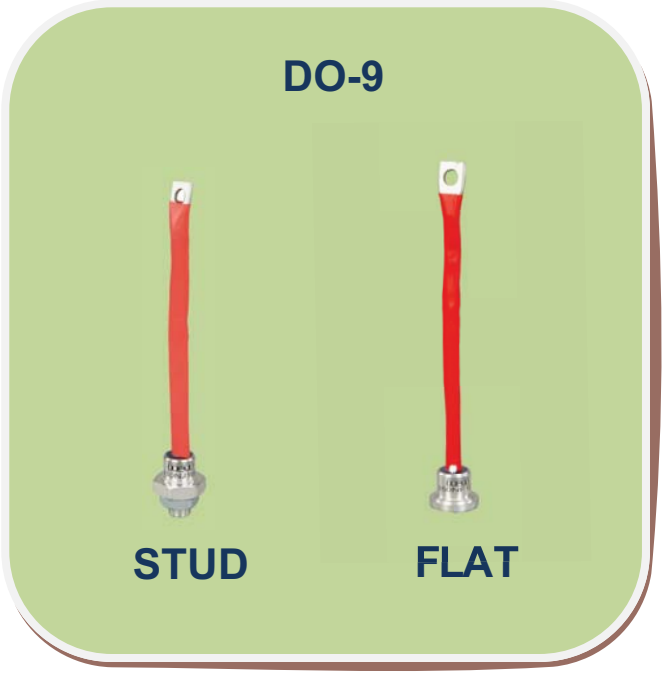
INTERNATIONAL
IRI

POWER DIODE

400NJ /400RJ, 400NF/400RF

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
- Traction

TECHNICAL DATA

DEVICE TYPE	V_{RRM} (V)	V_{RSM} (V)
400NJ40/400RJ40 400NF40/400RF40	400	500
400NJ120/400RJ120 400NF120/400RF120	1200	1300
400NJ160/400RJ160 400NF160/400RF160	1600	1700

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current T_C = 120^{0}C	400A
V_{FM}	Maximum peak forward Voltage drop @ 1500 AP	1.62 V
I_{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	8250 A
I^2t	Max. I^2t rating (non-rep.) for 10 msec	340000 A^2Sec
I_{RRM}	Peak reverse current at T_{vj} = 175^{0}C	50 mA
V_0 R_0	Tvj=max Tvj=max	0.80 V 0.35 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)(NJ ,RJ) Maximum thermal resistance (Case to heat sink)(NF,RF) Junction temperature Storage temperature	0.12 °C/W 0.08 °C/W 0.02 °C/W 180 °C 200 °C
Mounting torque		30 Nm
Weight	Approx.	330 gms
Package Outline		J ,F

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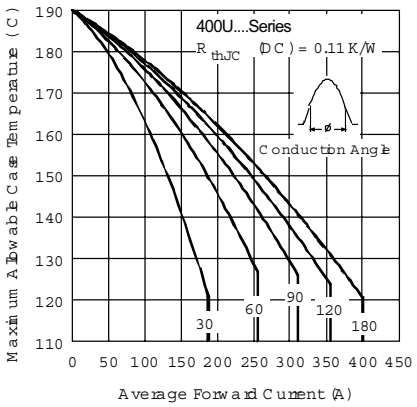


Fig. 1 - Current Ratings Characteristics

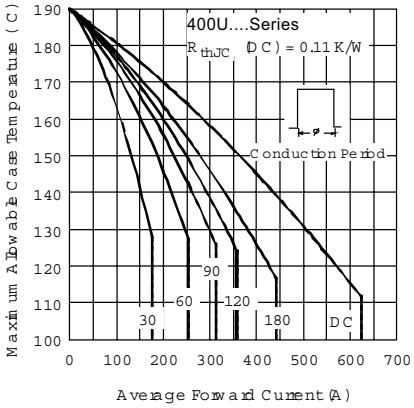


Fig. 2 - Current Ratings Characteristics

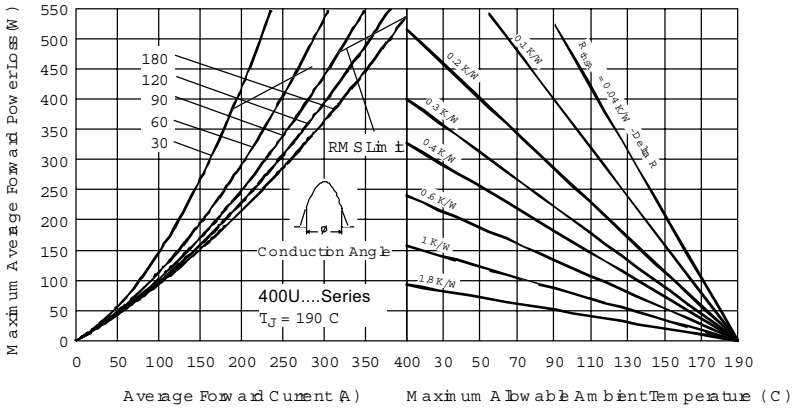


Fig. 3 - Forward Power Loss Characteristics

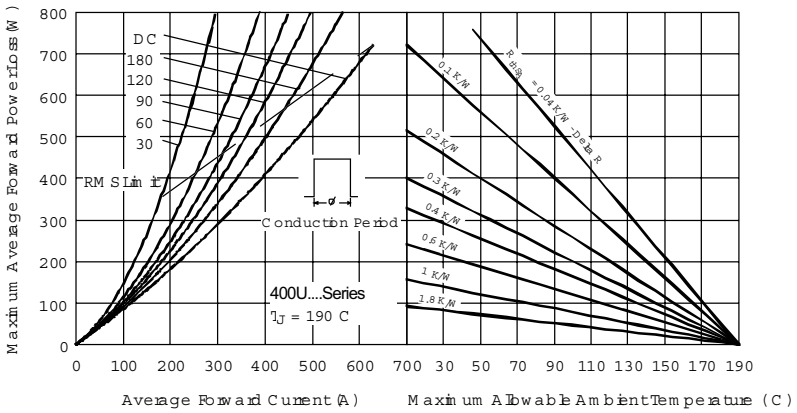


Fig. 4 - Forward Power Loss Characteristics

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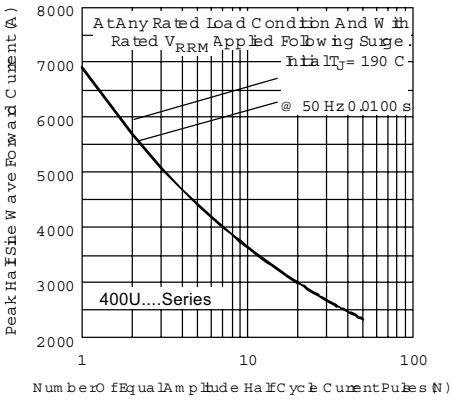


Fig. 5 - Maximum Non-Repetitive Surge Current

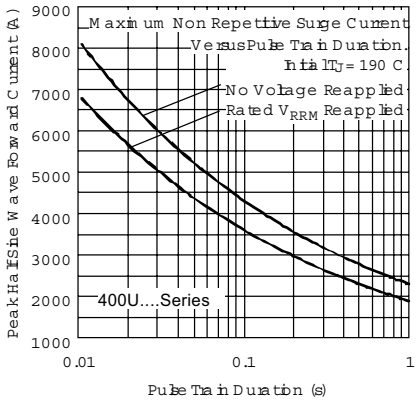


Fig. 6 - Maximum Non-Repetitive Surge Current

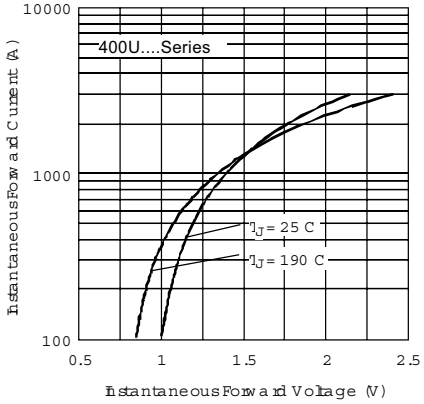


Fig. 7 - Forward Voltage Drop Characteristics

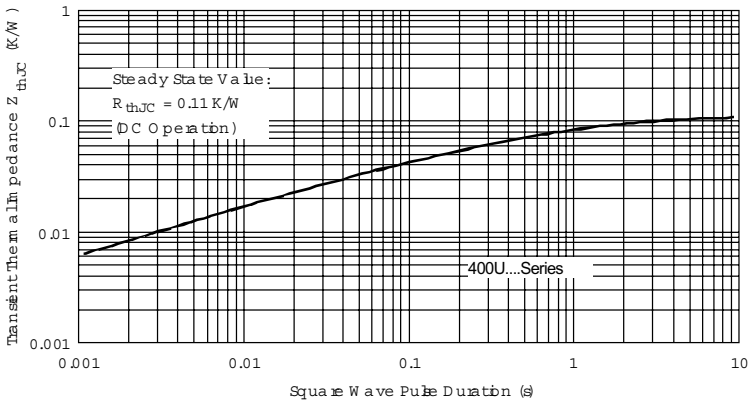
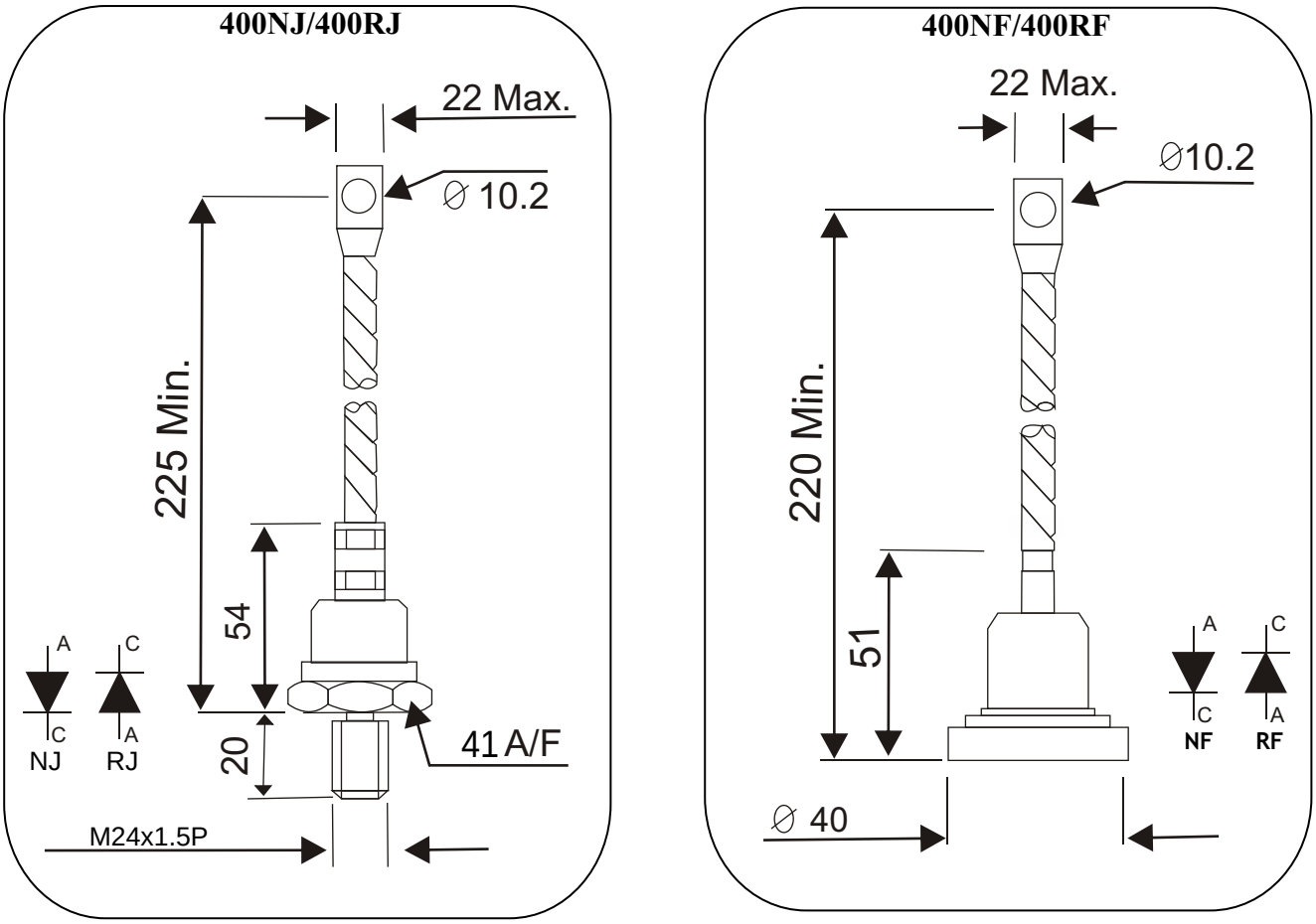


Fig. 8 - Thermal Impedance Z_{thJC} Characteristic

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PACKAGE OUTLINE



All dimensions are in mm.

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