INTERNATIONAL
IRI

ROTARY DIODE
PAO40A/PAO40C

FEATURES

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



TYPICAL APPLICATIONS

- Alternator

TECHNICAL DATA

DEVICE TYPE	V_{RRM} (V)	V_{RSM} (V)
PAO40A/PAO40C	1000	1100

SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current T_C = 140^{0}C	40A
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	500 A
I^2t	Max. I^2t rating (non-rep.) for 10 msec	1250 A^{2}Sec
I_{RRM}	Peak reverse current at T_{vj} = 175^{0}C	10 mA
V_0 R_0	Tvj=max Tvj=max	0.85 V 6.00 mΩ
$R_{th(j-c)}$ $R_{th(c-h)}$ Tvj Tstg	Maximum thermal resistance (Junction to case) Maximum thermal resistance (Case to heat sink) Junction temperature Storage temperature	1.0 °C/W 0.30 °C/W 150 °C 160 °C
Mounting torque		4 Nm
Weight	Approx.	30 gms
Package Outline		O

❖ Available without pigtail on request

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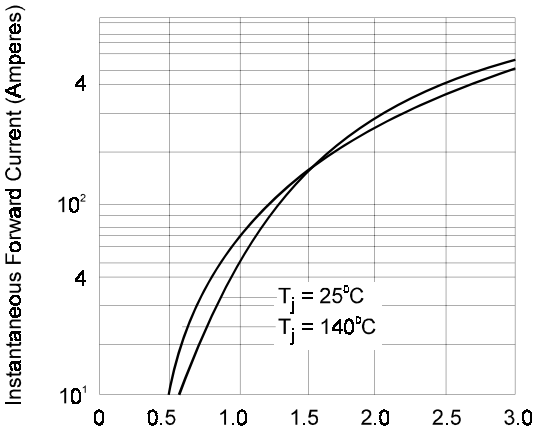


Fig. 1 - Forward Voltage Drop Vs. Forward Current

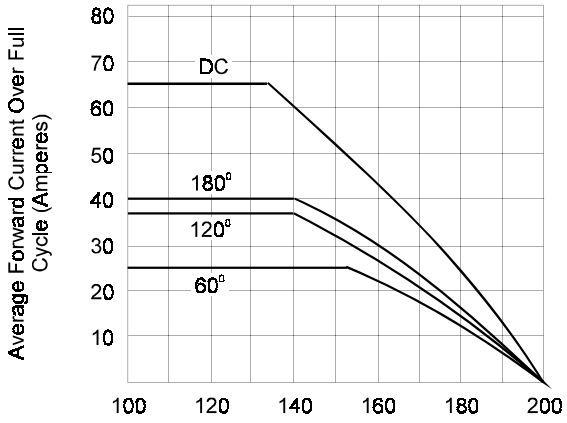


Fig. 2 - Average Forward Current Vs. Case Temperature

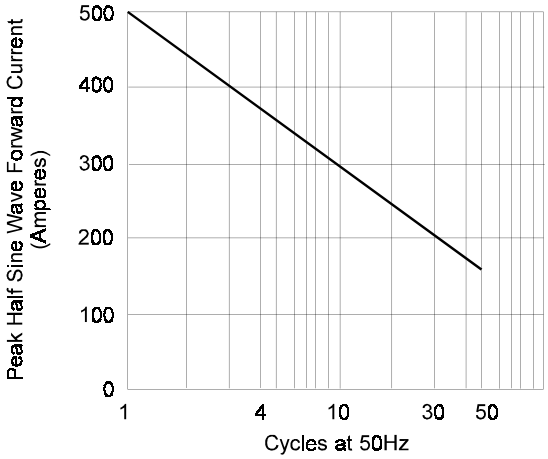


Fig. 3 - Maximum Non Recurrent Surge Current

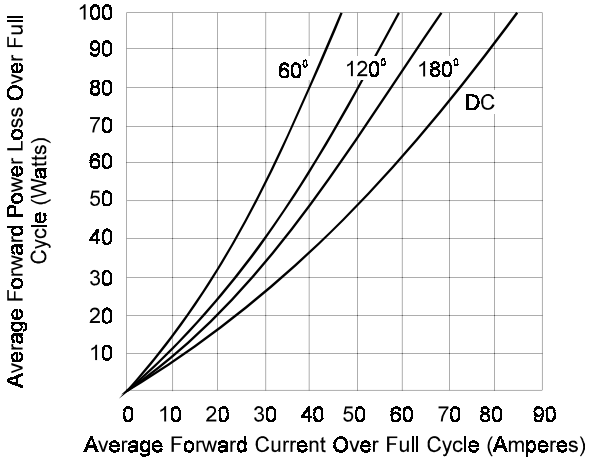


Fig. 4 - Maximum Forward Power Loss Vs. Low Level Forward Current

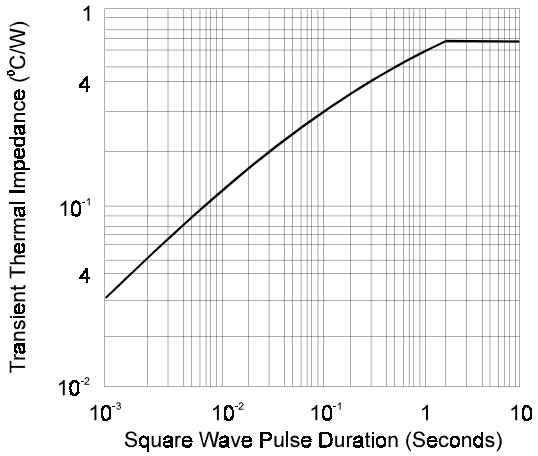


Fig. 5 - Transient Thermal Impedance

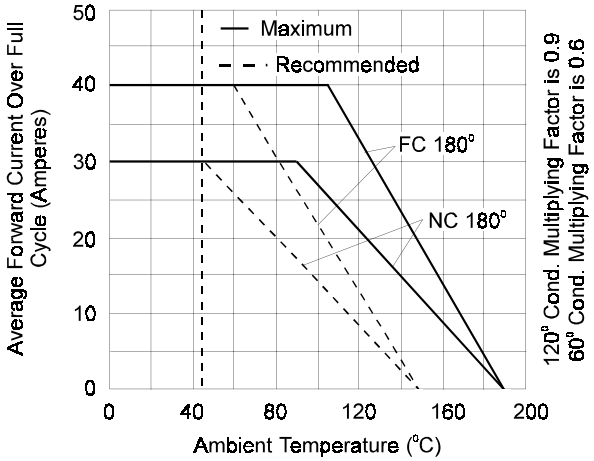
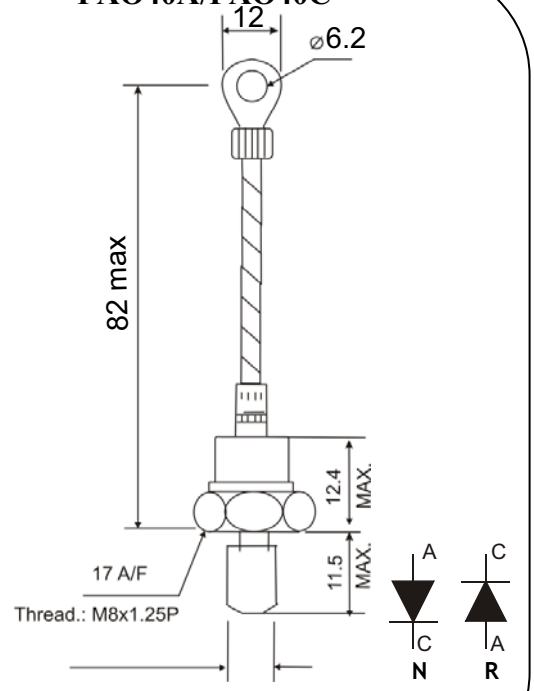


Fig. 6 - Diode Mounted on Heat Sink Type K3 with θHA - NC 2.5° C/W, FC 0.65°C/W

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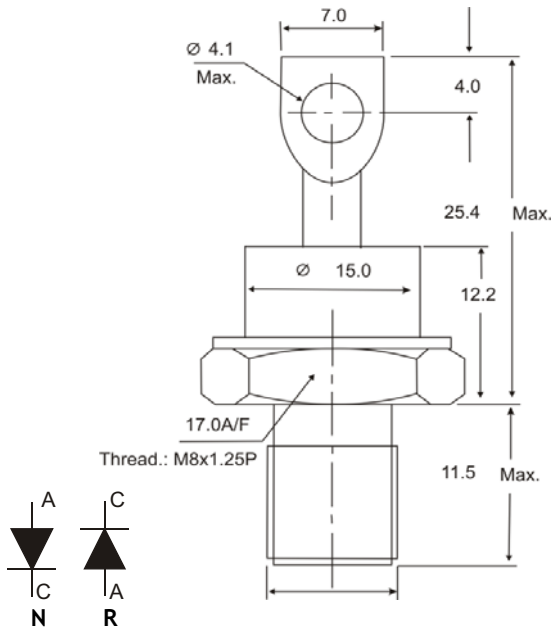
PACKAGE OUTLINE

PAO40A/PAO40C



WL

PAO40A/PAO40C



WOL

All dimensions are in mm.

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