

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 ² t	Max. I ² t 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	T _{vj} =max T _{vj} =max	0.85 V 6.00 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) 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		0

❖ Available without pigtail on request

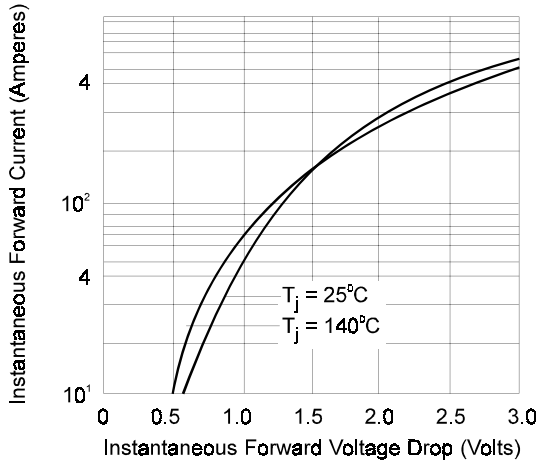


Fig. 1 - Forward Voltage Drop Vs. Forward Current

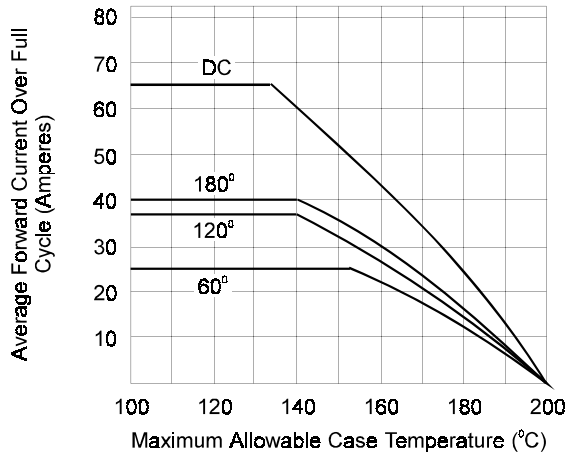


Fig. 2 - Average Forward Current Vs. Case Temperature

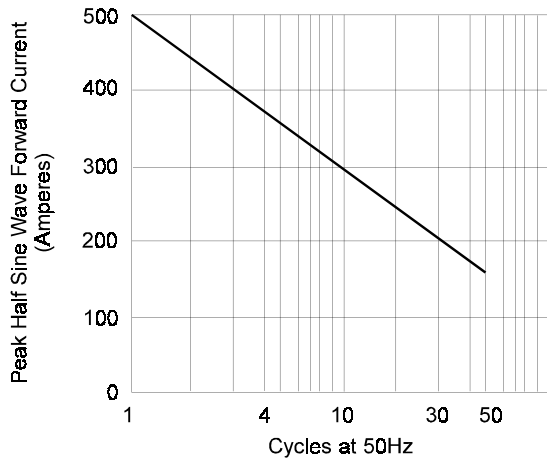


Fig. 3 - Maximum Non Recurrent Surge Current

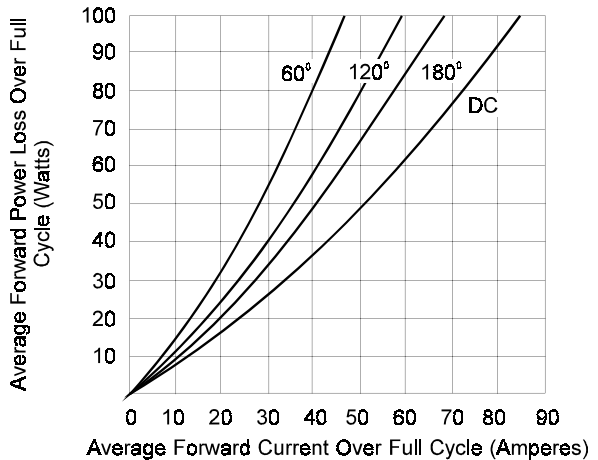


Fig. 4 - Maximum Forward Power Loss Vs. Low Level Forward Current

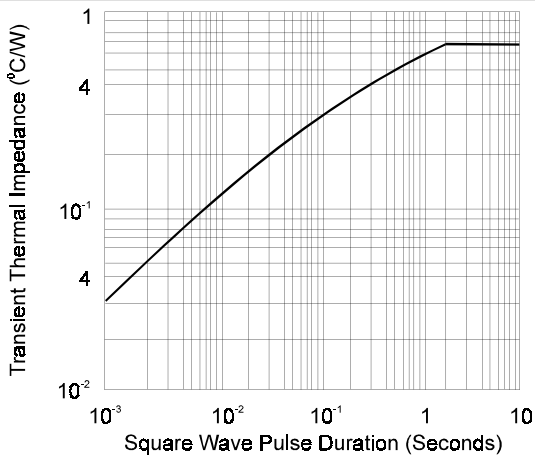


Fig. 5 - Transient Thermal Impedance

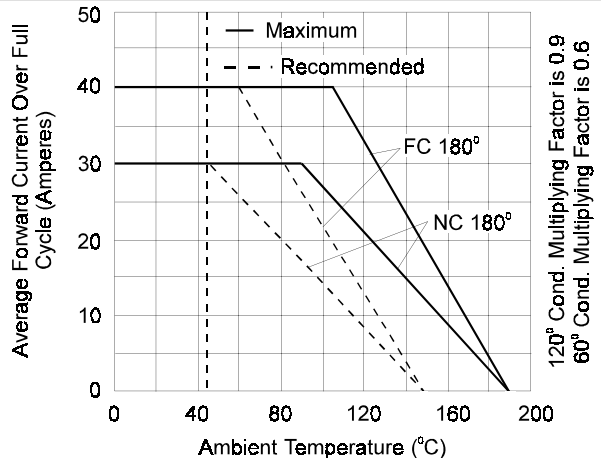
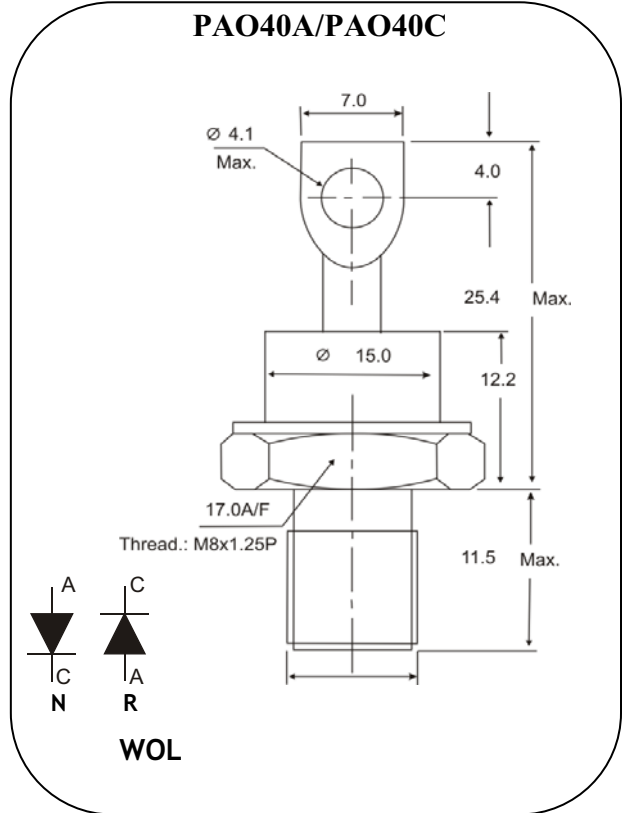
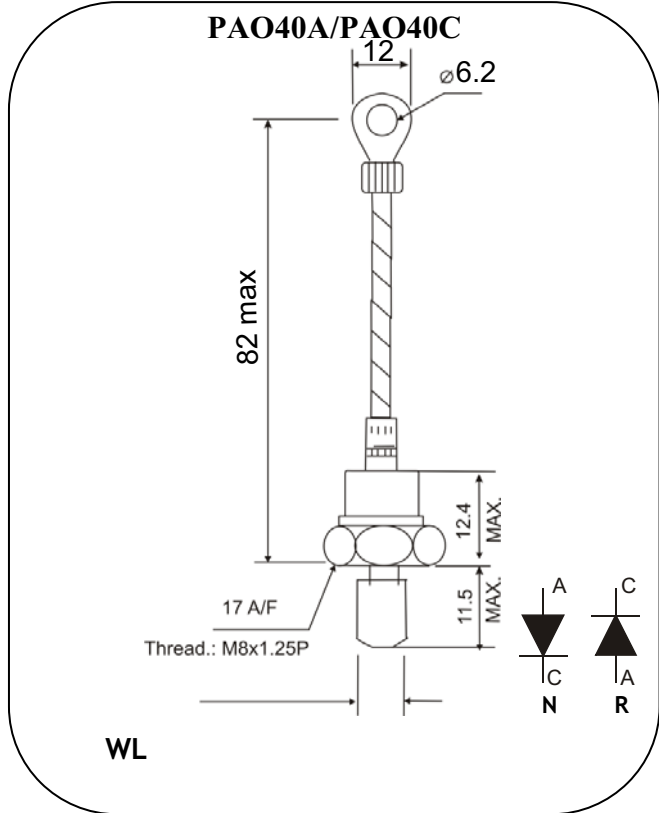


Fig. 6 - Diode Mounted on Heat Sink Type K3 with θ_{HA} - NC 2.5° C/W, FC 0.65° C/W

PACKAGE OUTLINE



All dimensions are in mm.

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