

FEATURES

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

TYPICAL APPLICATIONS

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

TECHNICAL DATA

DEVICE TYPE	V _{RRM} (V)	V _{RSM} (V)
40029131 NORMAL	2800	2900
40029132 REVERSE		



SYMBOL	CONDITIONS	VALUES
I _{F(AV)}	Maximum average forward Current T _c = 100 ⁰ C	280 A
V _{FM}	Max Peak forward Votage Drop @ 800 A	1.30 V
I _{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	6500 A
I ² t	Max. I ² t rating (non-rep.) for 10 msec	125000 A ² Sec
I _{RRM}	Peak reverse current at T _{vj} = 200 ⁰ C	50 mA
V ₀ R ₀	T _{vj} =max T _{vj} =max	0.80 V 0.45 mΩ
R _{th(j-c)} R _{th(c-h)} R _{th(c-h)} T _{vj} T _{stg}	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	0.13 °C/W 0.08 °C/W 0.05 °C/W -40 to + 200 °C -40 to +200 °C
Mounting torque		360 lb / 30 Nm
Weight	Approx.	260 gms
Package Outline		DO-9

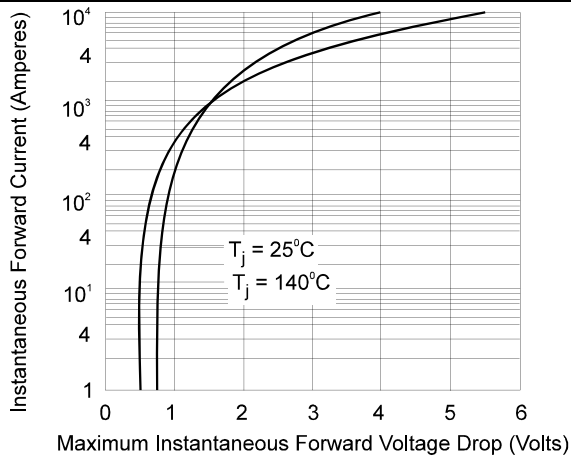


Fig. 1 - Forward Voltage Drop Vs. Forward Current

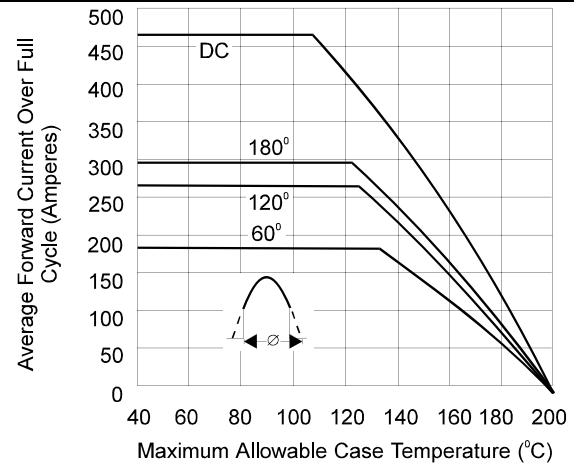


Fig. 2 - Average Forward Current Vs. Case Temperature

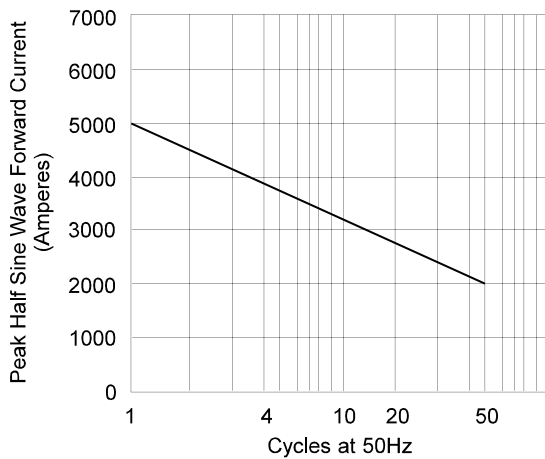


Fig. 3 - Maximum Non Recurrent Surge Current

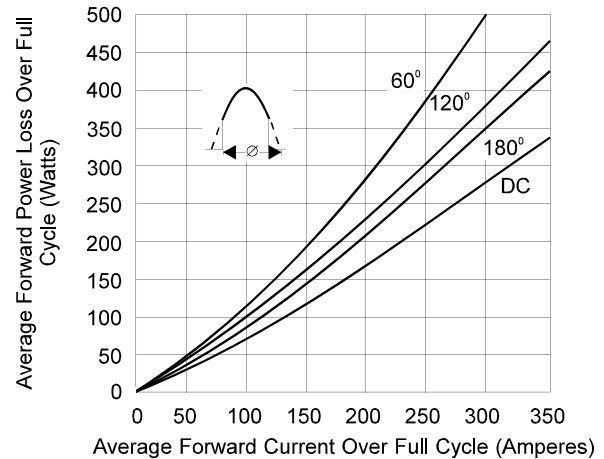


Fig. 4 - Maximum Forward Power Loss Vs. Forward Current

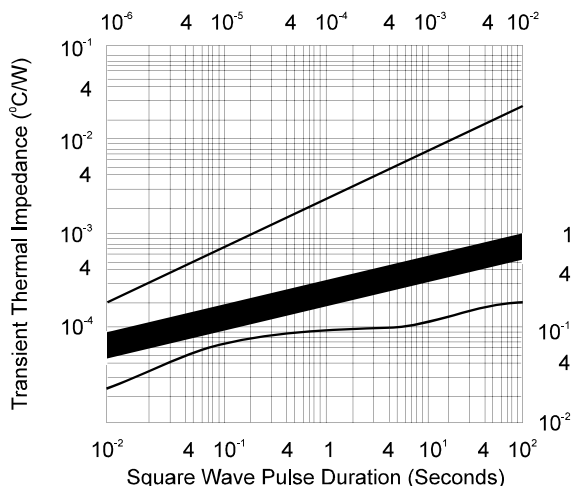


Fig. 5 - Transient Thermal Impedance

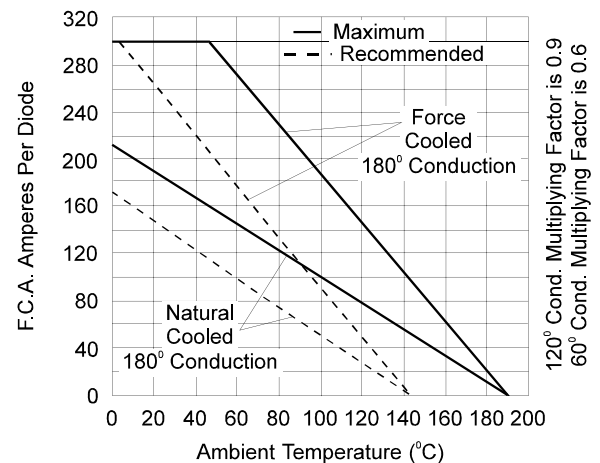
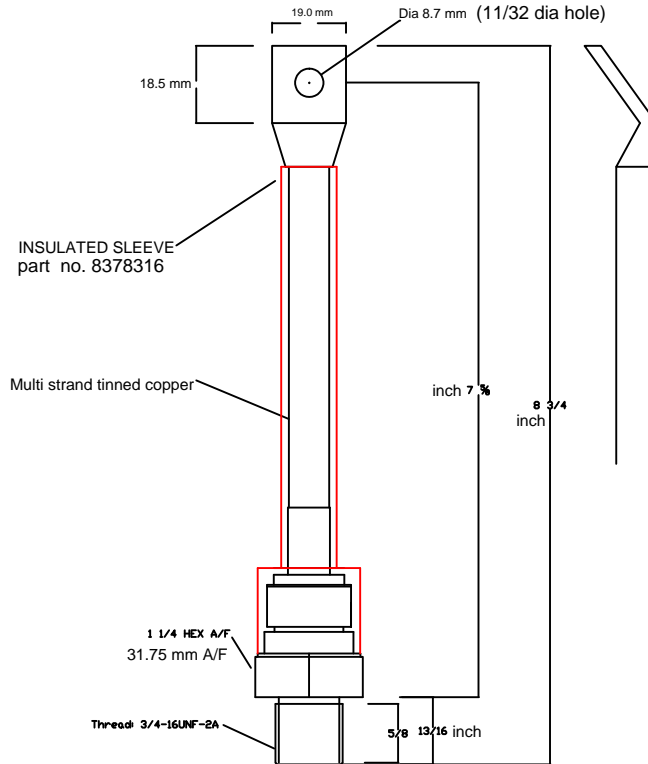


Fig. 6 - Diode Mounted on Heat Sink Type K5 with $\theta_{HA-NC} 0.55^\circ \text{C/W}$, $\text{FC } 0.13^\circ \text{C/W}$

PACKAGE OUTLINE



All dimensions are in mm. / inch

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