

FEATURES

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

TYPICAL APPLICATIONS

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

TECHNICAL DATA

DEVICE TYPE	V _{RRM} (V)	V _{RSM} (V)
410NU200/410RU200	2000	2100
410NU280/410RU280	2800	2900
410NU320/410RU320	3200	3300



SYMBOL	CONDITIONS	VALUES
I _{F(AV)}	Maximum average forward Current T _c = 160 °C	410A
V _{FM}	Maximum peak forward Voltage drop @Rated 1200 AP	1.25 V
I _{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec	8000 A
I ² t	Max. I ² t rating (non-rep.) for 10 msec	320000A ² Sec
I _{RRM}	Peak reverse current at T _{vj} = 175 °C	50 mA
V ₀ R ₀	T _{vj} =max T _{vj} =max	0.75 V 0.35 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	0.065 °C/W 0.002°C/W 180 °C 180 °C
Mounting torque		15 Nm/Per Bolt
Weight	Approx.	760 gms
Package Outline		U

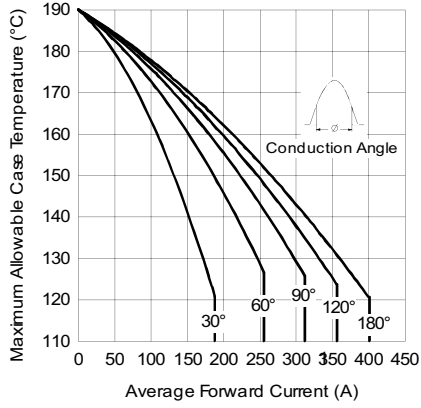


Fig. 1 - Current Ratings Charavteristics

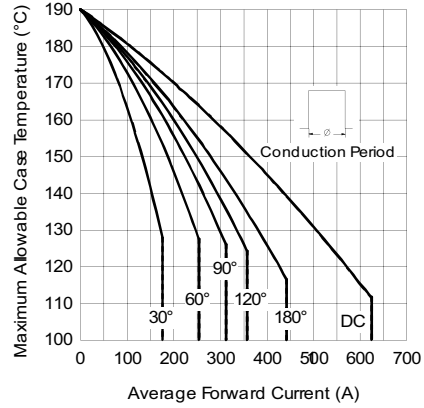


Fig. 2 - Current Ratings Charavteristics

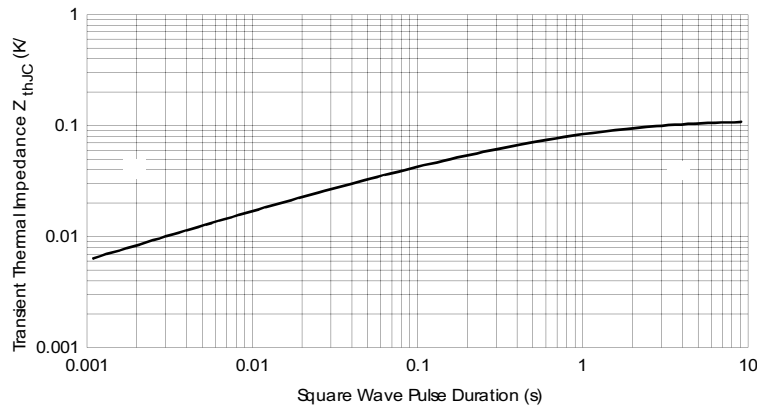


Fig. 3 - Thermal Impedance Z_{thJC} Characteristic

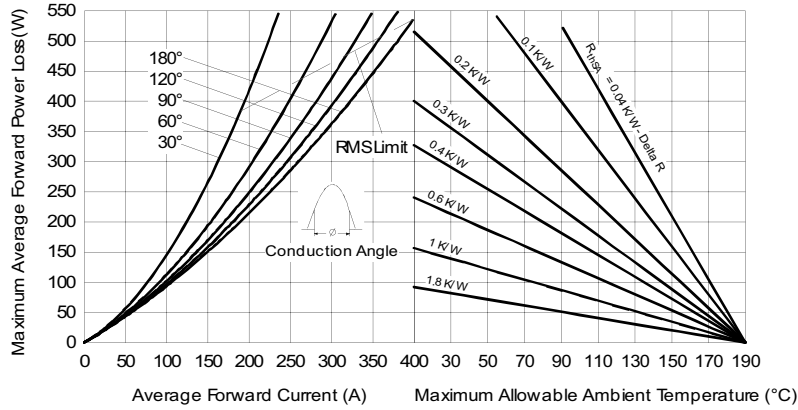


Fig. 4 - Forward Power Loss Characteristics

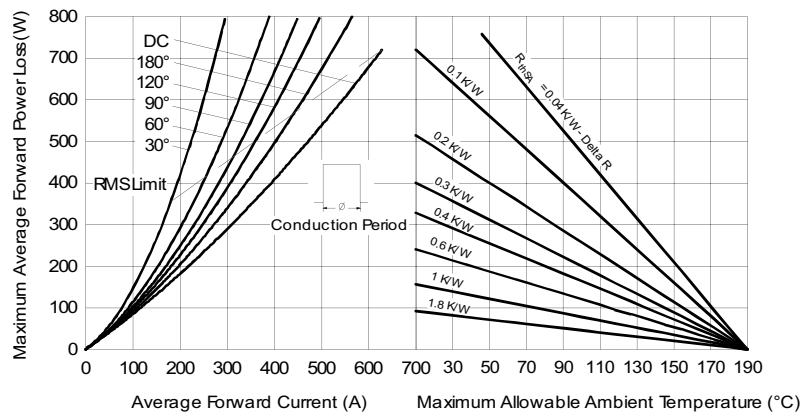


Fig. 5 - Forward Power Loss Characteristics

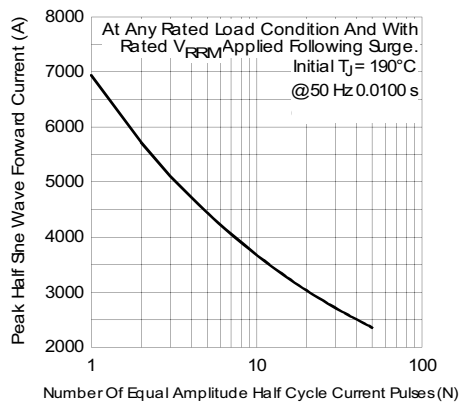


Fig. 6 - Maximum Non-Repetitive Surge Current

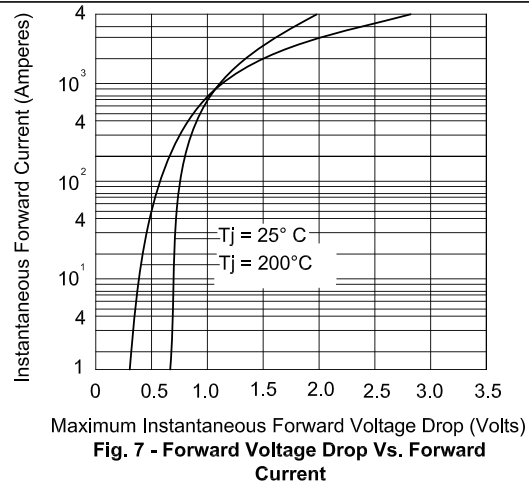
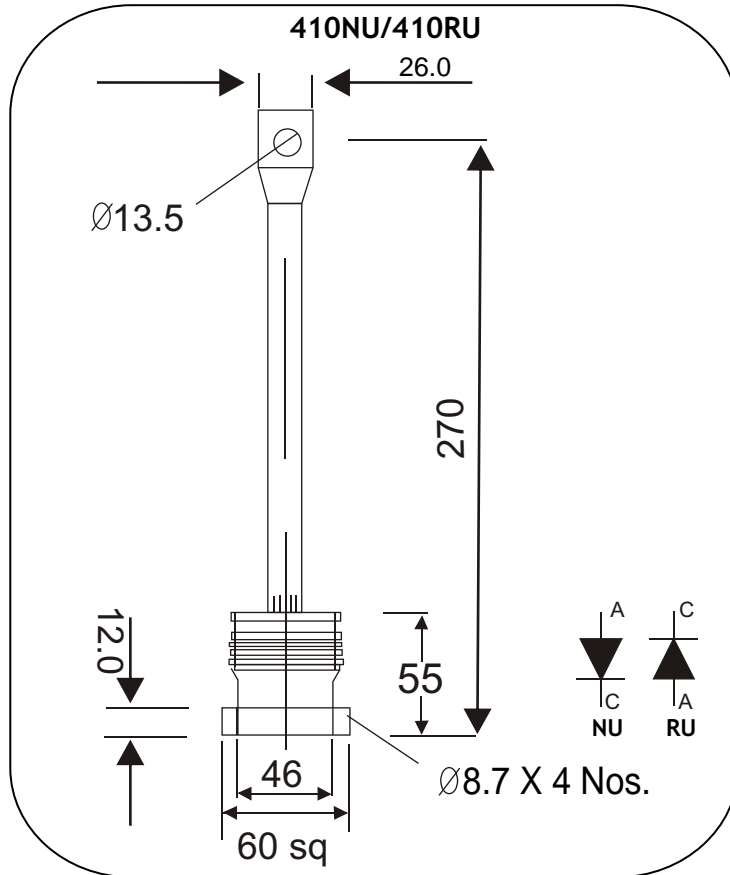


Fig. 7 - Forward Voltage Drop Vs. Forward Current

PACKAGE OUTLINE



All dimensions are in mm.

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