

FEATURES

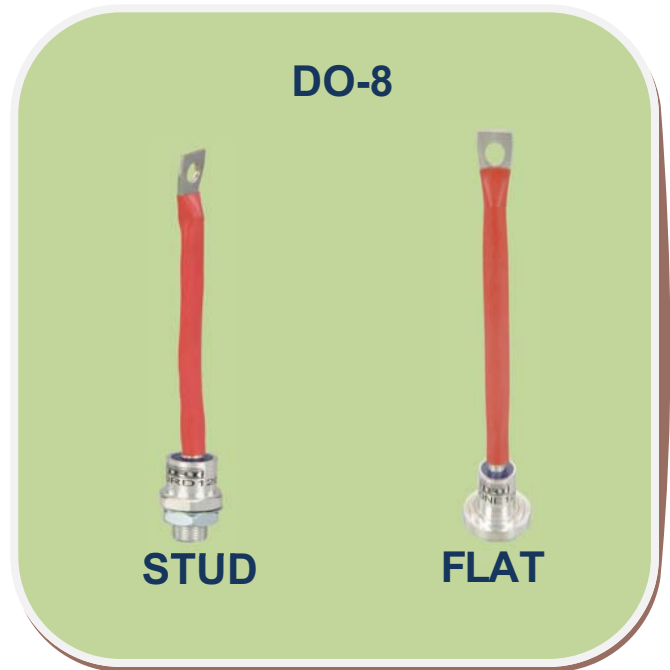
- Available in Normal & Reverse Polarity
- All Diffused Series
- Industrial Grade
- Available in Avalanche Characteristic

TYPICAL APPLICATIONS

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

TECHNICAL DATA

DEVICE TYPE	V _{RRM} (V)	V _{RSM} (V)
200ND40/200RD40 200NE40/200RE40	400	500
200ND120/200RD120 200NE120/200RE120	1200	1300
200ND160/200RD160 200NE160/200RE160	1600	1700



SYMBOL	CONDITIONS	VALUES
I _{F(AV)}	Maximum average forward Current T _c = 130 ⁰ C	200A
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	3650 A
I ² t	Max. I ² t rating (non-rep.) for 10 msec	66600 A ² Sec
I _{RRM}	Peak reverse current at T _{vj} = 175 ⁰ C	22 mA
V ₀	T _{vj} =max	0.81 V
R ₀	T _{vj} =max	0.84 mΩ
R _{th(j-c)}	Maximum thermal resistance (Junction to case)	0.25 °C/W
R _{th(c-h)}	Maximum thermal resistance (Case to heat sink)(ND,RD)	0.10 °C/W
R _{th(c-h)}	Maximum thermal resistance (Case to heat sink)(NE,RE)	0.07 °C/W
T _{vj}	Junction temperature	200 °C
T _{stg}	Storage temperature	200 °C
Mounting torque		10 Nm
Weight	Approx.	150 gms
Package Outline		D,E

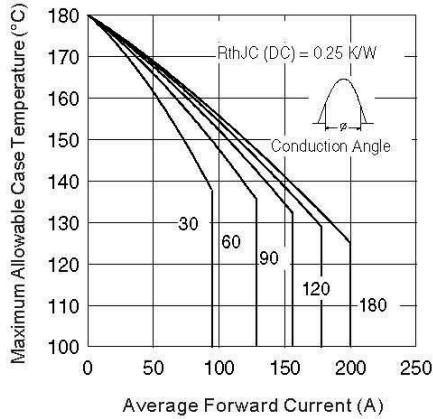


Fig. 1 - Current Ratings Characteristics

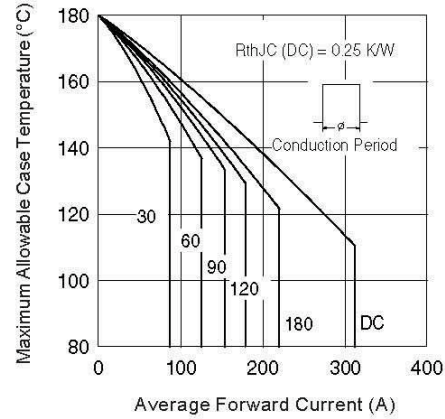


Fig. 2 - Current Ratings Characteristics

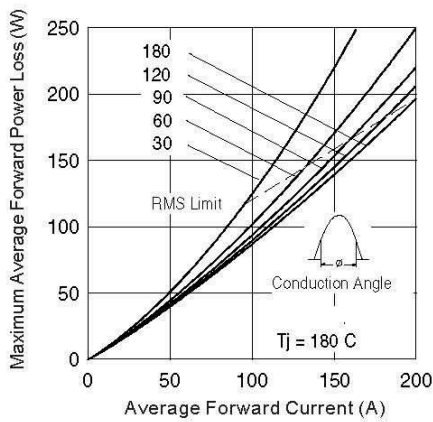


Fig. 3 - Forward Power Loss Characteristics

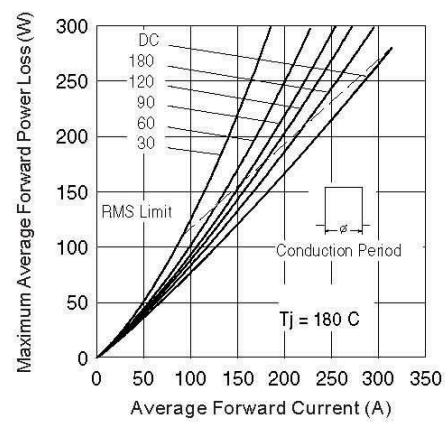


Fig. 4 - Forward Power Loss Characteristics

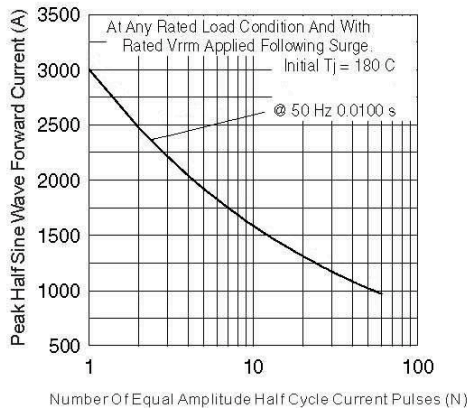


Fig. 5 - Maximum Non-Repetitive Surge Current

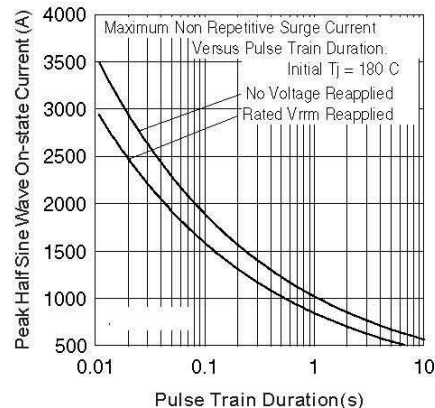


Fig. 6 - Maximum Non-Repetitive Surge Current

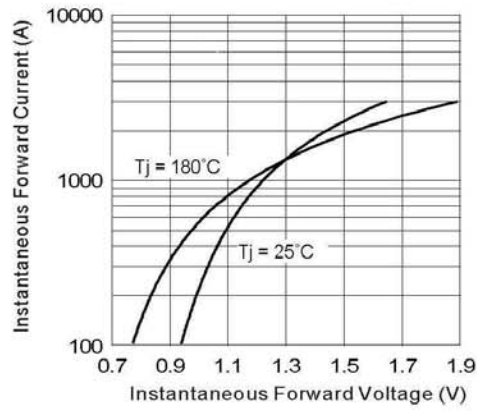


Fig. 7 - Forward Voltage Drop Characteristics

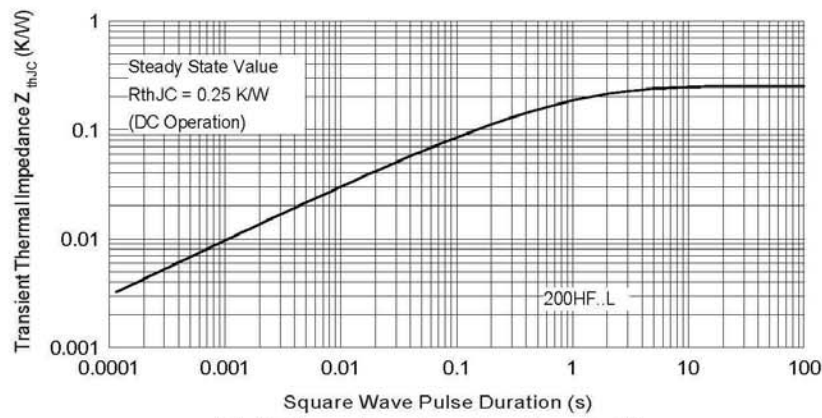
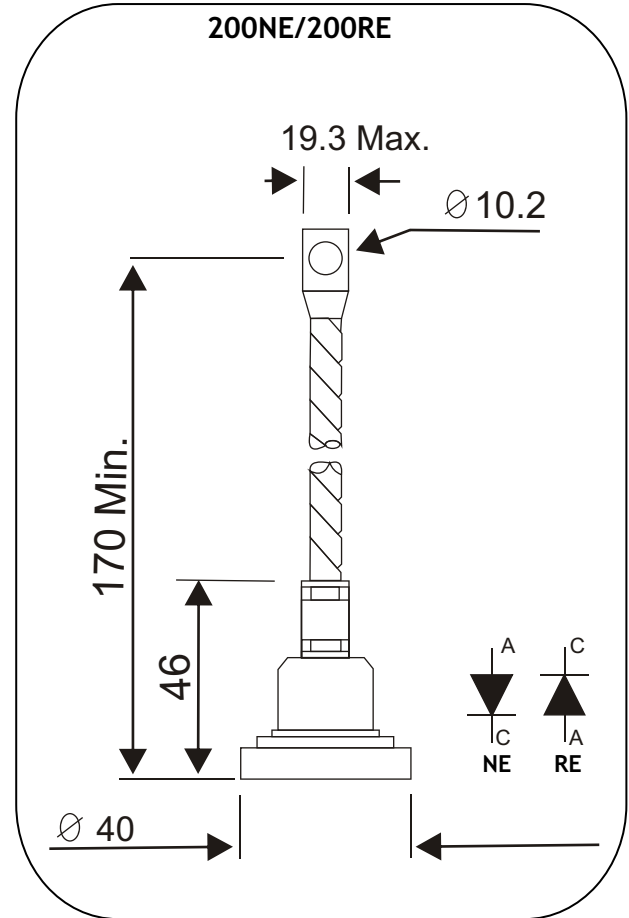
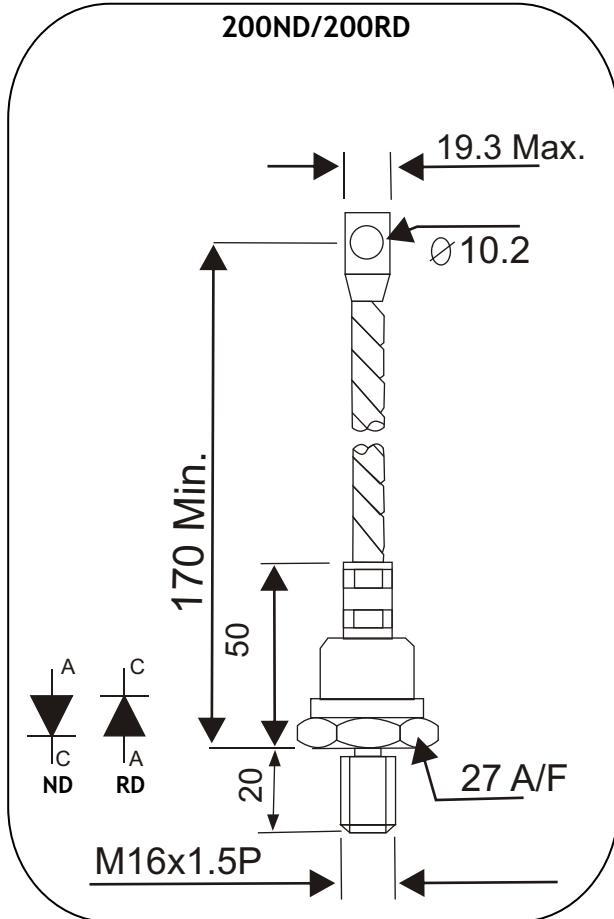


Fig. 8 - Thermal Impedance Z_{thJC} Characteristic

PACKAGE OUTLINE



All dimensions are in mm.

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