INTERNATIONAL
IRI

POWER DIODE
82PF/82PFR

FEATURES

- Available in Normal & Reverse Polarity
- All Diffused Series
- Industrial Grade
- Low thermal resistance
- High surge current capability

TYPICAL APPLICATIONS

- Power supplies
- Machine tool controls
- Rotating Rectifiers



DO-5

TECHNICAL DATA

DEVICE TYPE	V_{RRM} (V)	V_{RSM} (V)
82PF80/82PFR80	**800**	**900**
82PF120/82PFR120	**1200**	**1300**

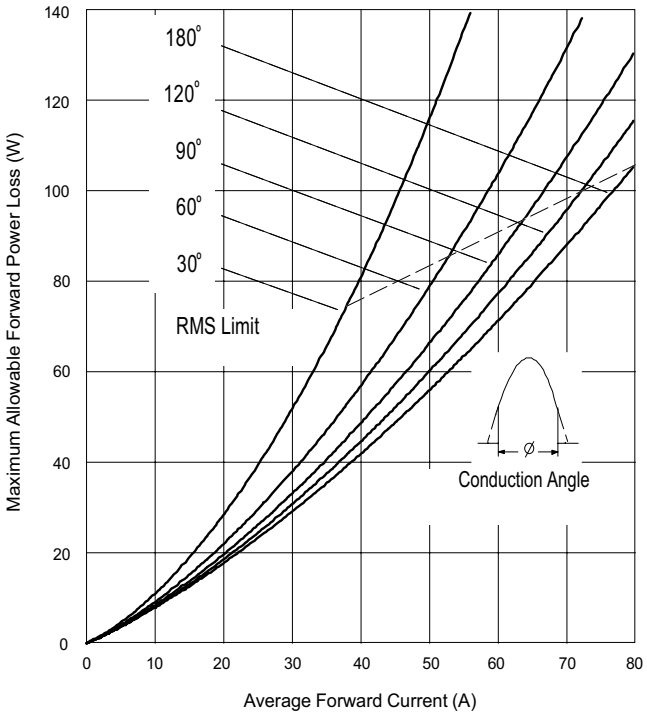
SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward current T_C =140°C	80 A
V_{FM}	Maximum peak forward voltage drop @ I_F =240 A	1.35 V
I_{FSM}	Maximum peak one cycle(non-rep.) surge current 10 msec.	1500 A
I^2t	Max. I^2t rating(non-rep.) for 10 msec.	11250 A^2Sec
I_{RRM}	Peak reverse current at T_{vj} = 180°C	10 mA
V_0 R_0	Tvj=max Tvj=max	0.75 V 2.80mΩ
$R_{th(j-c)}$ $R_{th(c-h)}$ Tvj Tstg	Maximum thermal resistance (Junction to case) Maximum thermal resistance (case to heat sink) Junction temprature Storage temprature	0.40°C/W 0.25 °C/W 180°C -40....180°C
Mounting torque	Tighten on hexagone	4.3 Nm
	Tighten on Nut	3.4 Nm
Weight	Approx.	27.5 gm

Available with pigtail on request.

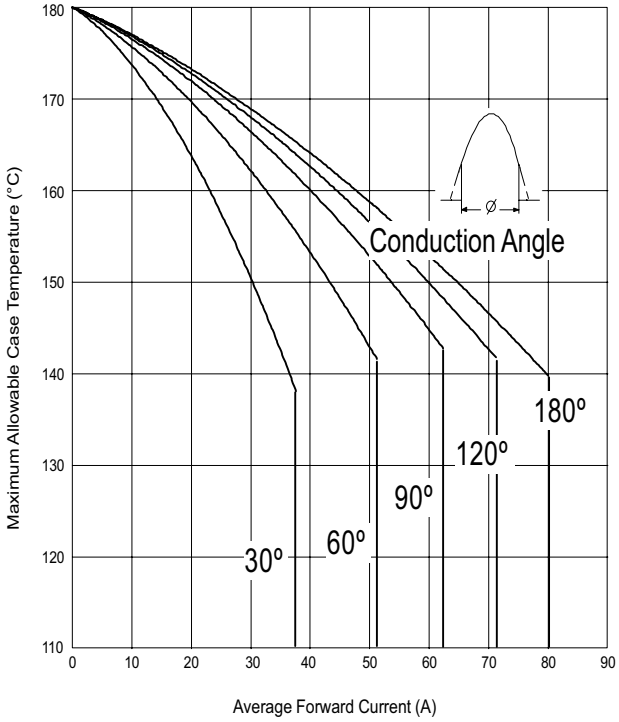
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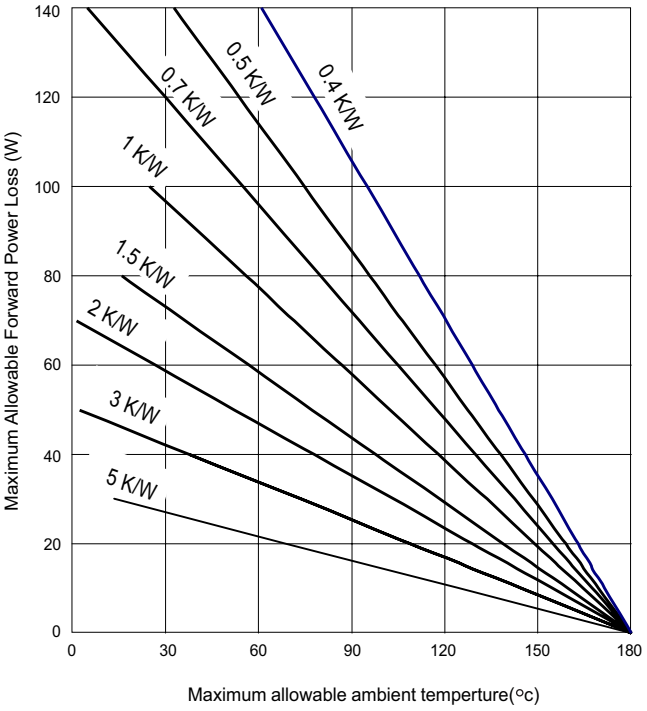
Forward Power Loss Characteristics



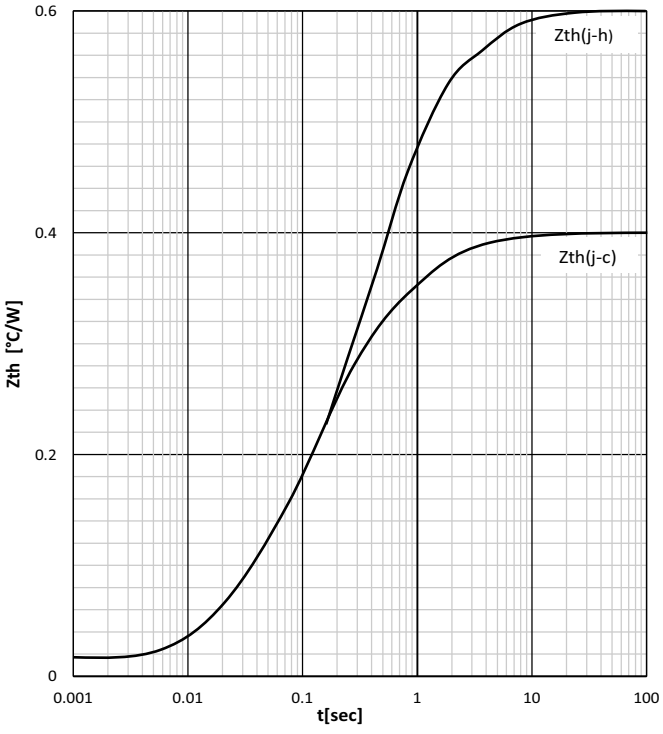
Current Ratings Characteristics



Maximum Allowable Ambient Temperature (°C)

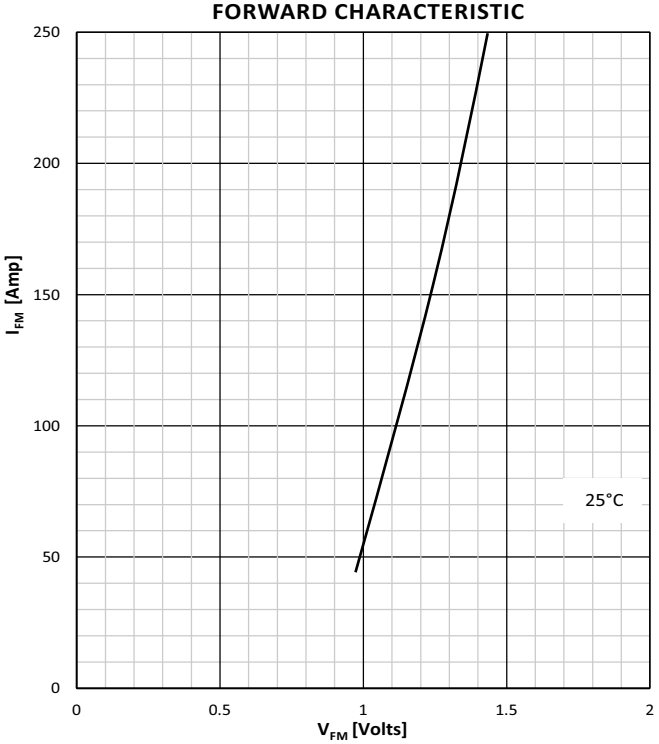


TRANSIENT THERMAL IMPEDANCE

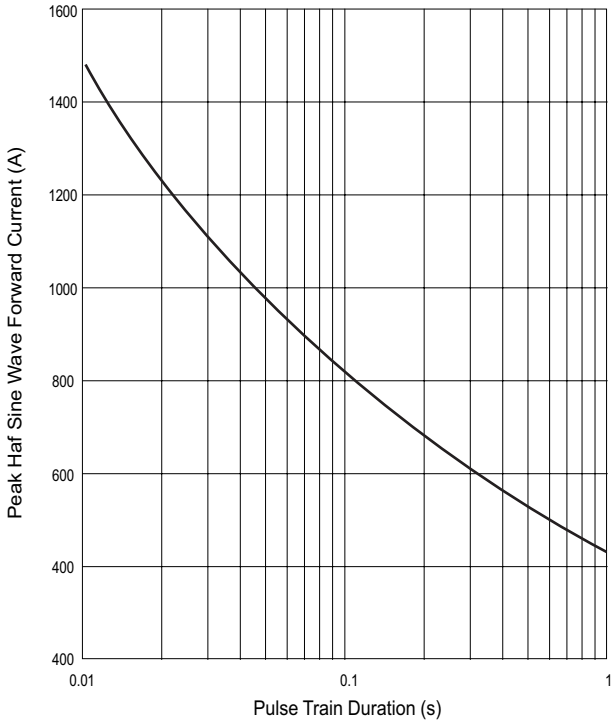


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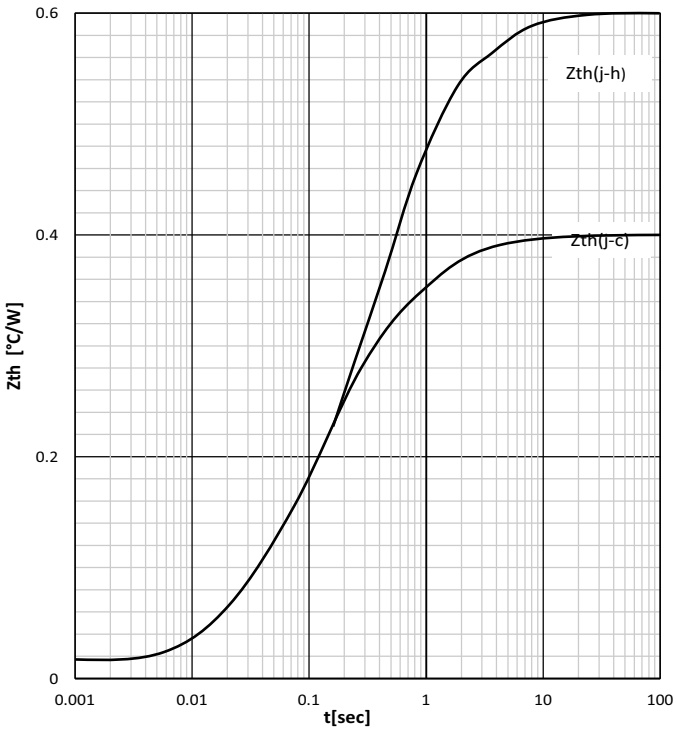
FORWARD CHARACTERISTIC



Maximum Non -Repetitive Surge Current

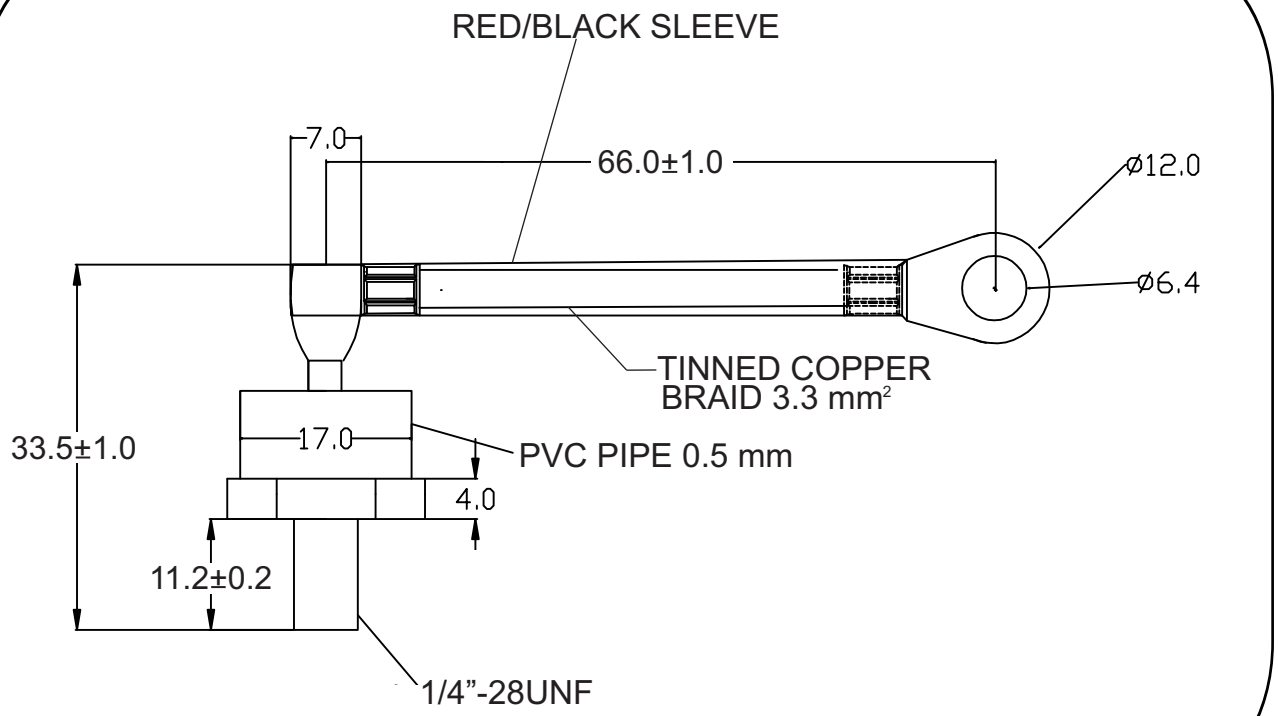


TRANSIENT THERMAL IMPEDANCE



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PACKAGE OUTLINE



All dimensions are in mm.

Insel Rectifiers (India) Pvt. Ltd.

(An ISO 9001:2015, 14001:2015 Certified Company)

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