

**FEATURES**

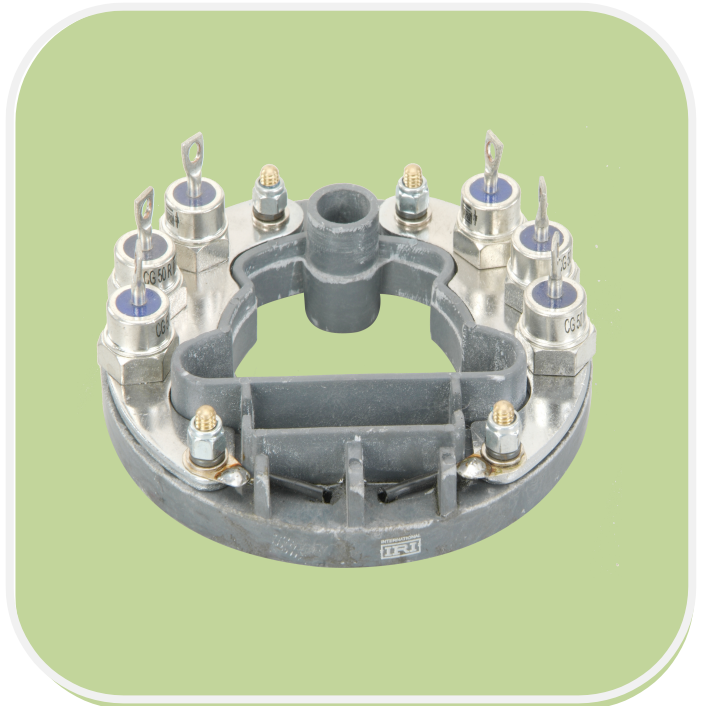
- Compact in size
- Hermetic glass metal diode
- Diode - CG50N/R

**TYPICAL APPLICATIONS**

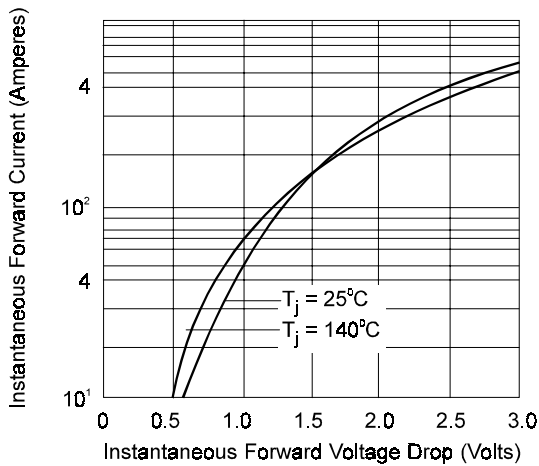
- CROMPTON GREAVES- Alternator (125-500 KVA)

**TECHNICAL DATA**

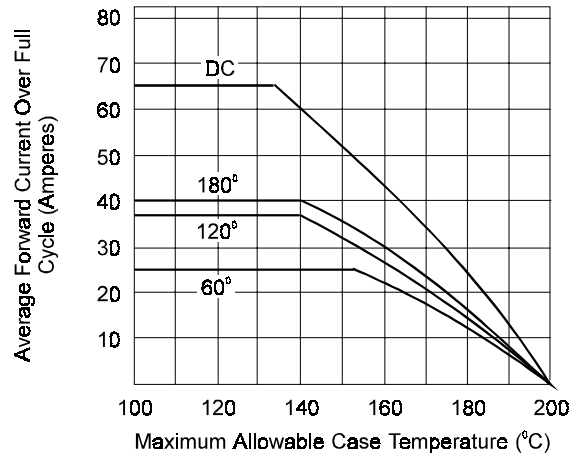
DEVICE TYPE	V <sub>DRM</sub> (V)	V <sub>RSM</sub> (V)
RRA- CROMPTON GREAVES (SMALL)	<b>1000</b>	<b>1100</b>



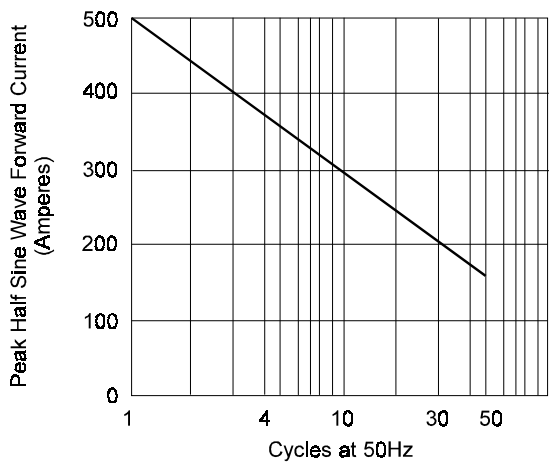
SYMBOL	CONDITIONS	VALUES
I <sub>F(AV)</sub>	Maximum average forward Current T <sub>c</sub> = 140°C	50A
V <sub>FM</sub>	Maximum peak forward Voltage drop @ Rated I <sub>F (Peak)</sub>	1.35 V
I <sub>FSM</sub>	Maximum peak one cycle (non-rep.) surge current 10 msec	500 A
I <sup>2</sup> t	Max. I <sup>2</sup> t rating (non-rep.) for 10 msec	1250 A <sup>2</sup> Sec
I <sub>RRM</sub>	Peak reverse current at T <sub>vj</sub> = 175°C	10 mA
V <sub>0</sub>	T <sub>vj</sub> =max	0.85 V
R <sub>0</sub>	T <sub>vj</sub> =max	6.00 mΩ
R <sub>th(j-c)</sub>	Maximum thermal resistance ( Junction to case)	1.0 °C/W
R <sub>th(c-h)</sub>	Maximum thermal resistance ( Case to heat sink)	0.30 °C/W
T <sub>vj</sub>	Junction temperature	150 °C
T <sub>stg</sub>	Storage temperature	160 °C
Mounting torque		6 NM
Weight	Approx.	400 g
Package Outline		IR - 46



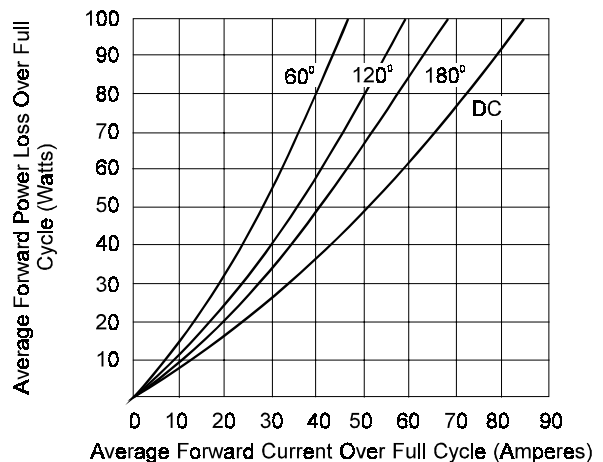
**Fig. 1 - Forward Voltage Drop Vs. Forward Current**



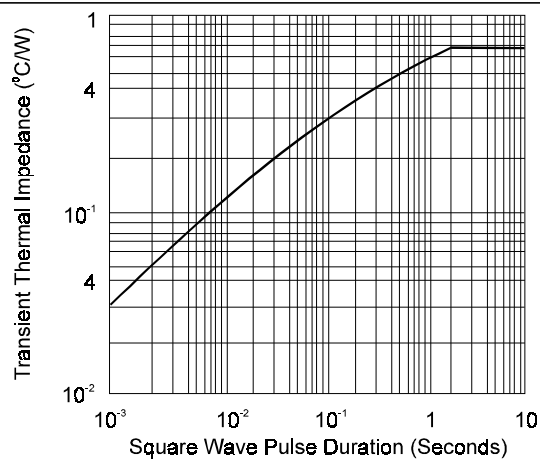
**Fig. 2 - Average Forward Current Vs. Case Temperature**



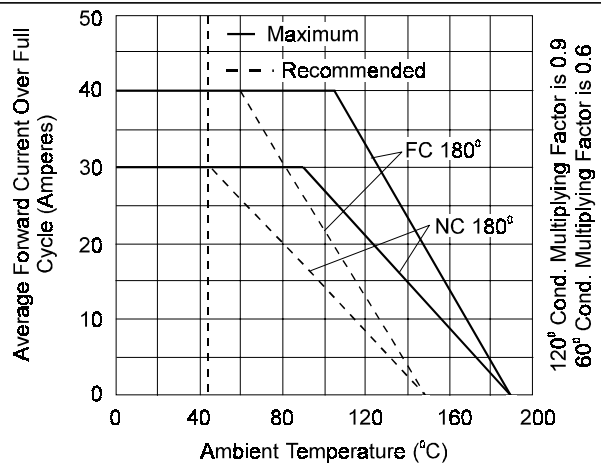
**Fig. 3 - Maximum Non Recurrent Surge Current**



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

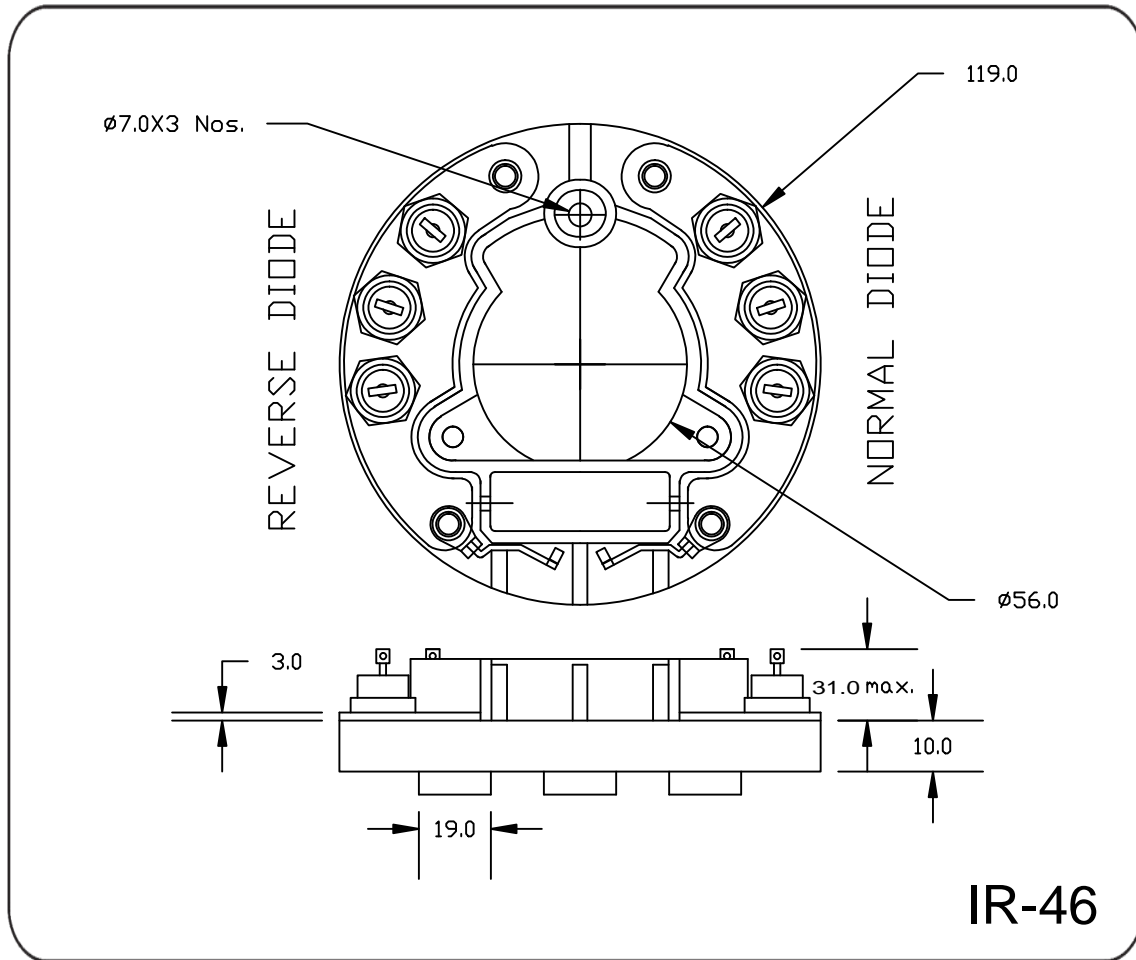


**Fig. 5 - Transient Thermal Impedance**



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

PACKAGE OUTLINE



All dimensions are in mm.

**Insel Rectifiers (India) Pvt. Ltd.**

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