

**FEATURES**

- Wide current range
- High voltage ratings up to 5600 V
- High surge current capabilities
- Diffused junction
- Hockey PUK version

**TYPICAL APPLICATION**

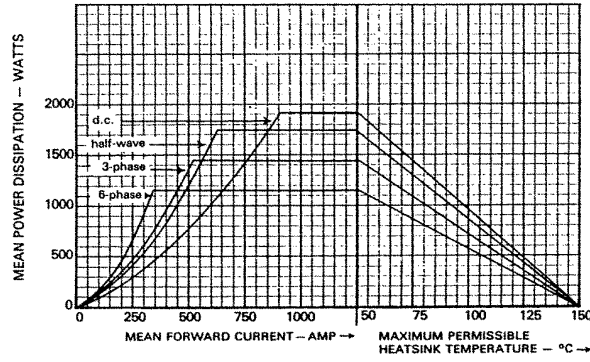
- Converters
- Power supplies
- Machine tool controls
- High power drives
- Medium traction applications

**TECHNICAL DATA**

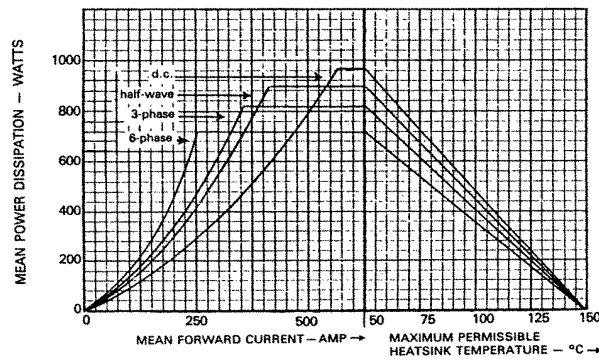
DEVICE TYPE	$V_{RRM}$ (V)	$V_{RSM}$ (V)
<b>DS912SG3636</b>	<b>3600</b>	<b>3700</b>
<b>DS912SG4040</b>	<b>4000</b>	<b>4100</b>
<b>DS912SG5656</b>	<b>5600</b>	<b>5700</b>



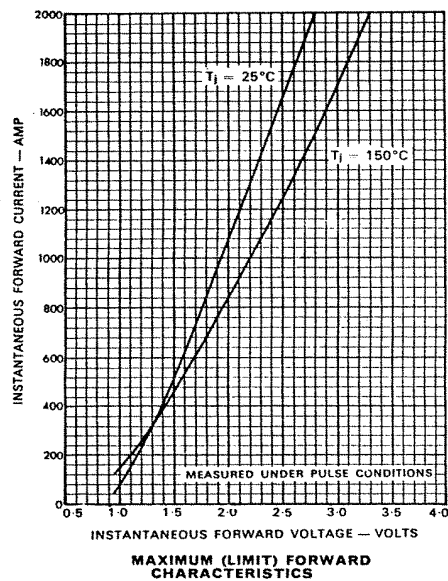
Symbol	Conditions	Values
$I_{F(AV)}$	Sin 180 ; T <sub>case</sub> = 100 °C	600 A
$I_{FSM}$	T <sub>vj</sub> = 150 °C ; 10 ms, V <sub>RRM</sub> = 50%	5.6 KA
$I^2t$	T <sub>vj</sub> = 150 °C, 10 ms T <sub>vj</sub> = 150 °C, 3 ms	157000 A <sup>2</sup> s 101000 A <sup>2</sup> s
$I_{RRM}$	T <sub>vj</sub> = 150 °C	50 mA max
$V_F$	T <sub>vj</sub> = 25 °C ; I <sub>F</sub> = 1200 A	2.1 V max
$R_{th(j-h)}$	d,c half wave 3 phase	0.052 °C/W 0.058 °C/W 0.068 °C/W
T <sub>vj</sub> T <sub>stg</sub>		150 °C -40.....+ 175 °C
Mounting Force	SI units	12.5-15 KN
Weight	Approx	300 g
Package Outline		G



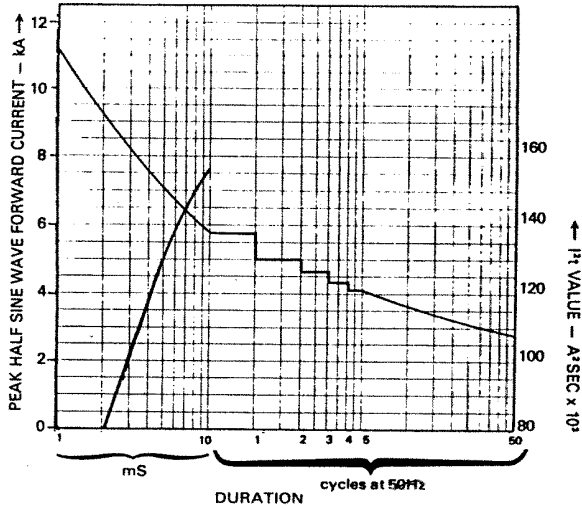
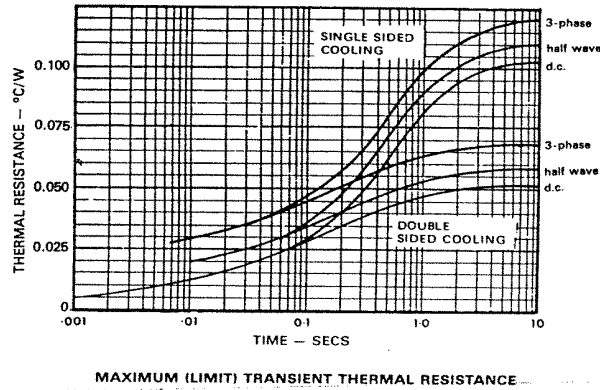
DISSIPATION CURVES:  
DOUBLE SIDE COOLED



DISSIPATION CURVES:  
SINGLE SIDE COOLED

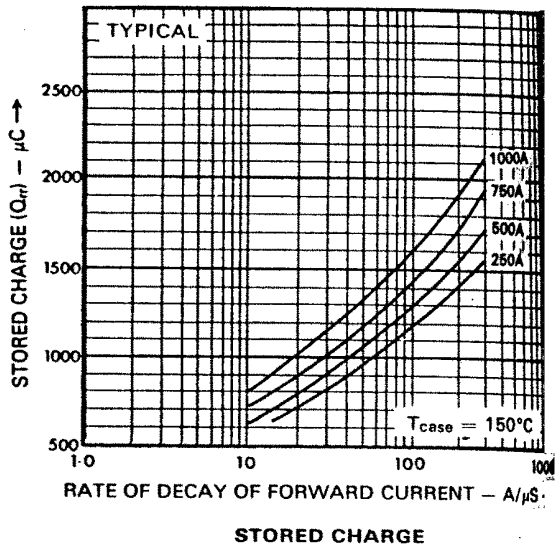


MAXIMUM (LIMIT) FORWARD  
CHARACTERISTICS

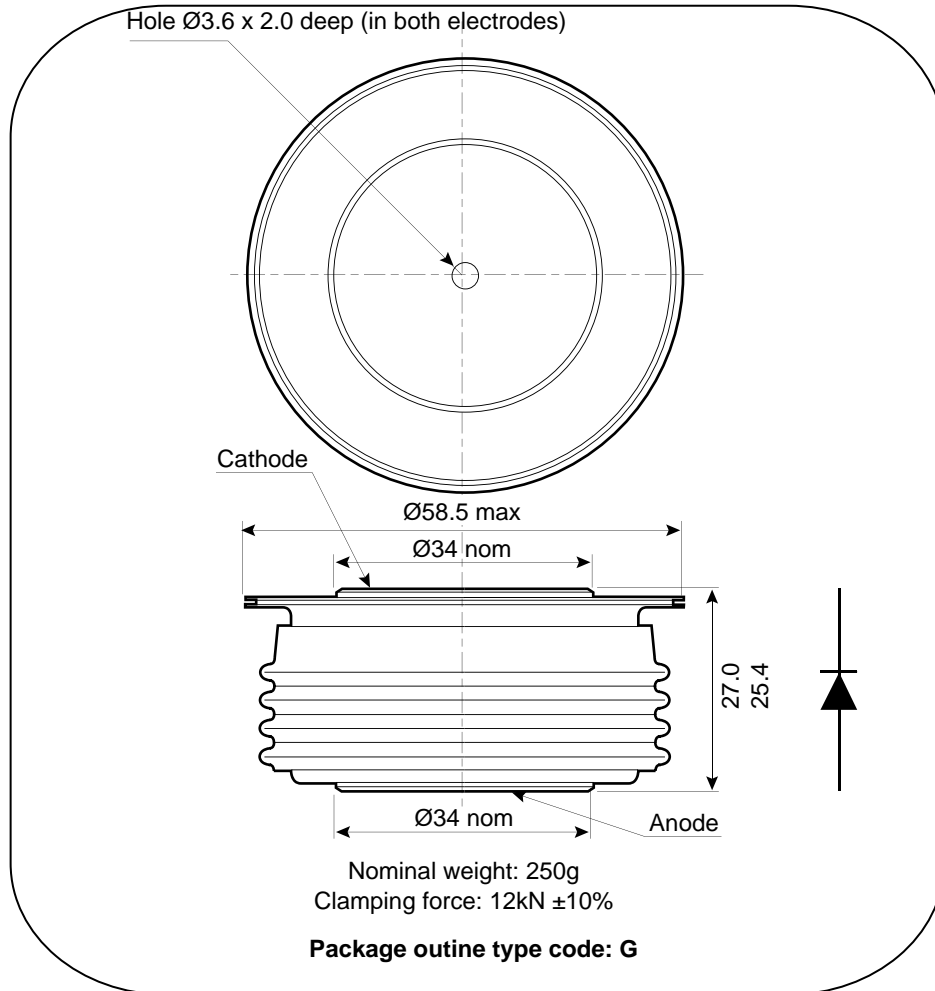


**SURGE (NON-REPETITIVE)  
FORWARD CURRENT versus TIME**  
(with 50% V<sub>RRM</sub> T<sub>case</sub> = 150°C)

$$I^2t = \frac{I^2 \times t}{2}$$



**PACKAGE OUTLINE**



All dimensions are in mm.

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

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

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