

## POWER DIODE

# 350NG/RG, 350NF/RF

### FEATURES

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



STUD

FLAT

# DO9

### TYPICAL APPLICATIONS

- 👉 Power Supplies
- 👉 Machine Tool Controls
- 👉 Battery Chargers
- 👉 Welders

## POWER DIODE

**350NG/RG,  
350NF/RF**



### TECHNICAL DATA

#### DEVICE TYPE

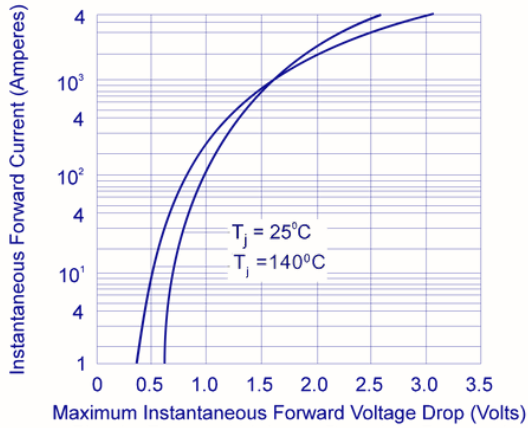
$V_{RRM}$   
(V)

$V_{RSM}$   
(V)

350NG/RG40 350NF/RF40	400	500
350NG/RG120 350NF/RF120	1200	1300
320NG/RG160 320NF/RF160	1600	1700

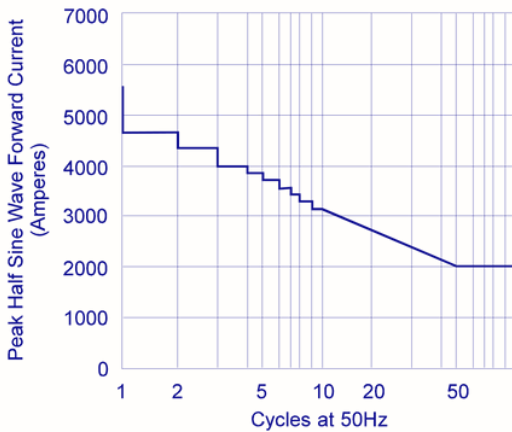
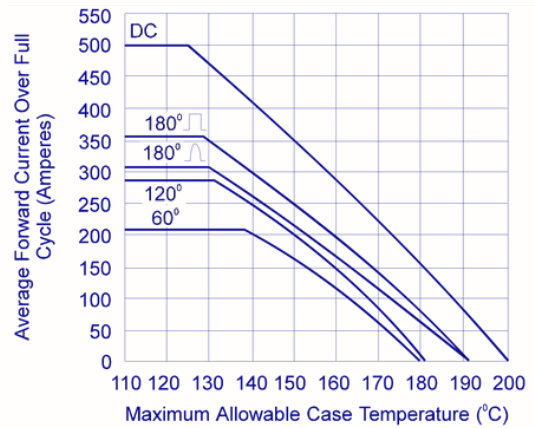
SYMBOL	CONDITIONS	VALUES
$I_{F(AV)}$	Maximum average forward Current $T_c = 125^{\circ}C$	350A
$V_{FM}$	Maximum peak forward Voltage drop @ Rated $I_{F(Peak)}$	1.20 V
$I_{FSM}$	Maximum peak one cycle (non-rep.) surge current 10 msec	6000 A
$I^2t$	Max. $I^2t$ rating (non-rep.) for 10 msec	180000A <sup>2</sup> Sec
$I_{RRM}$	Peak reverse current at $T_{vj} = 150^{\circ}C$	50 mA
$V_0$ $R_0$	$T_{vj} = \max$ $T_{vj} = \max$	0.80 V 0.45 m $\Omega$
$R_{th(j-c)}$ $R_{th(c-h)}$ $R_{th(c-h)}$ $T_{vj}$ $T_{stg}$	Maximum thermal resistance ( Junction to case) Maximum thermal resistance ( Case to heat sink)(NG,RG) Maximum thermal resistance ( Case to heat sink)(NF,RF) Junction temperature Storage temperature	0.12 $^{\circ}C/W$ 0.08 $^{\circ}C/W$ 0.02 $^{\circ}C/W$ 150 $^{\circ}C$ 200 $^{\circ}C$
Mounting torque		30 Nm
Weight	Approx.	330 gms
Package Outline		G,F

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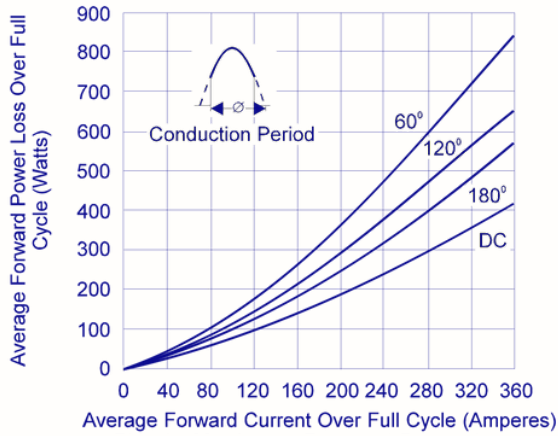
**FIG. 1** forward voltage drop vs. forward current

**FIG. 2** average forward current vs. case temperature



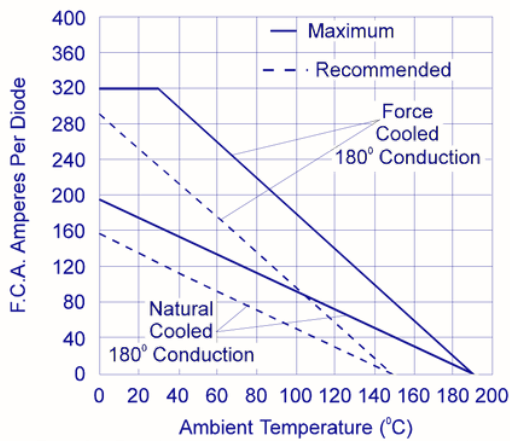
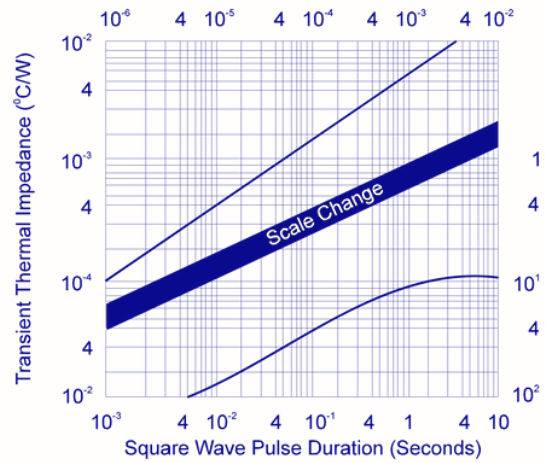
**FIG. 3** maximum non recurrent surge current

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**FIG. 4** maximum forward power loss vs. forward current

**FIG. 5** transient thermal impedance

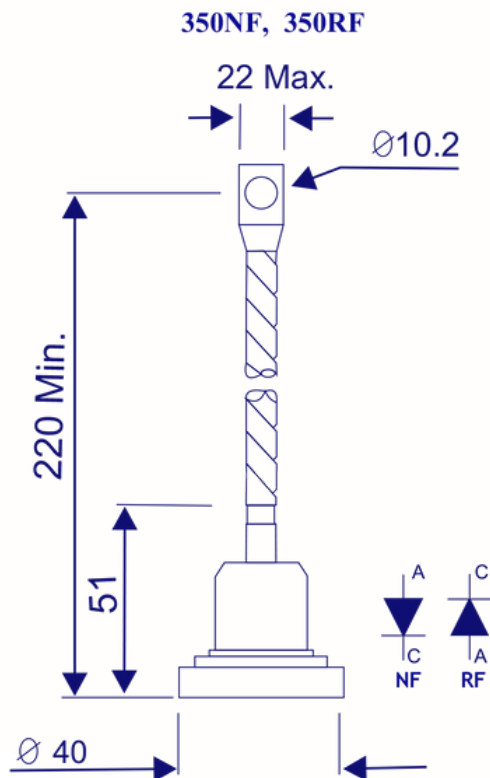
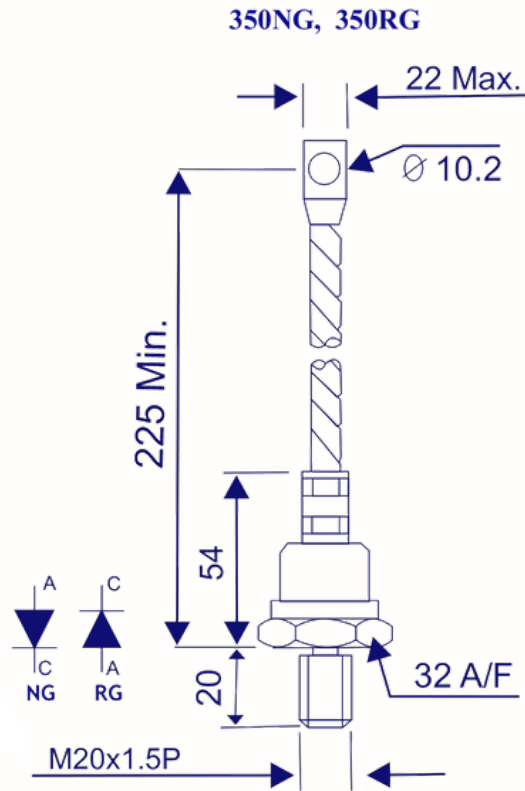


**FIG. 6** diode 320NG/RG mounted on heat sink

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PACKAGE OUTLINE



all dimensions in mm