

# Rectifier Diode D170



## Technical Data

Typical applications :All purpose high power rectifier diodes, Non-controllable rectifiers .  
Free-wheeling diodes & welding

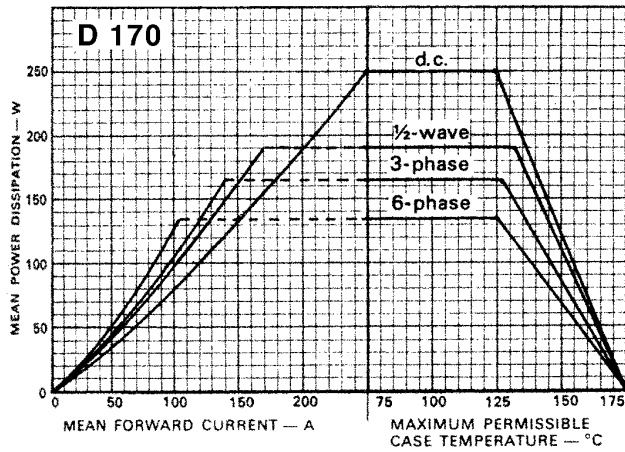
Type No.	$V_{RRM}$ (Volts)	$V_{RSM}$ (Volts)
D170/04	400	500
D170/08	800	900
D170/12	1200	1300
D170/14	1400	1500
D170/16	1600	1700

### Features

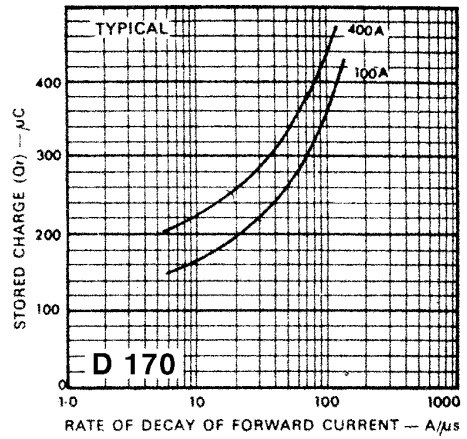
- Reverse voltage upto 1600V.
- Hermetic glass to metal seal
- C : Cathode to stud
- A : Anode to stud

Symbol	Conditions	Values
$I_{F(AV)}$	Sin 180; $T_{case} = 132\text{ }^{\circ}\text{C}$	170 A
$I_{FSM}$	$T_{vj} = 175\text{ }^{\circ}\text{C}$ ; 10 ms with 50% VRRM	4.5 KA
$I^2t$	$T_{vj} = 175\text{ }^{\circ}\text{C}$ ; 10 ms	101000 $\text{A}^2\text{s}$
	$T_{vj} = 175\text{ }^{\circ}\text{C}$ ; 3 ms	74000 $\text{A}^2\text{s}$
$I_{RRM}$	$T_{vj} = 175\text{ }^{\circ}\text{C}$	15 mA max
$V_F$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; $I_F = 500\text{ A}$	1.30 V max
$V_o$	$T_{vj} = 175\text{ }^{\circ}\text{C}$	0.81 V
$R_o$	$T_{vj} = 175\text{ }^{\circ}\text{C}$	0.84 m
$R_{th(j-c)}$  $R_{th(c-h)}$ $T_{vj}$ $T_{stg}$	d.c.	0.20 $^{\circ}\text{C/W}$
	Half wave	0.22 $^{\circ}\text{C/W}$
	3 phase	0.30 $^{\circ}\text{C/W}$
		0.15 $^{\circ}\text{C/W}$
		175 $^{\circ}\text{C}$
		-40.....+ 175 $^{\circ}\text{C}$
Mounting torque	SI units	10 Nm
Weight	Approx	100 g
Case outline		W / M

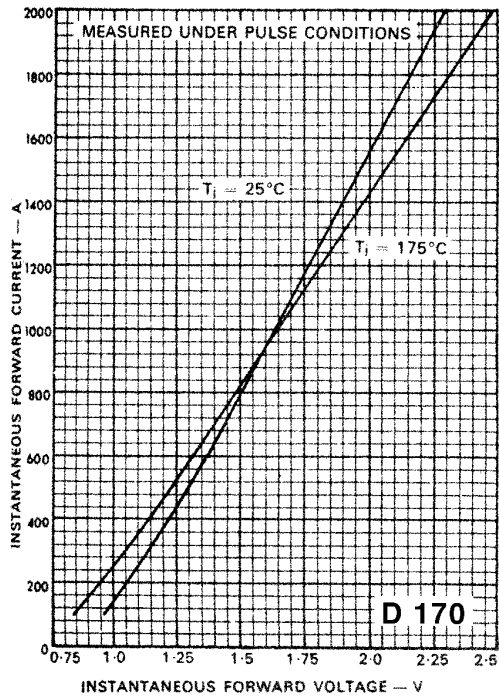




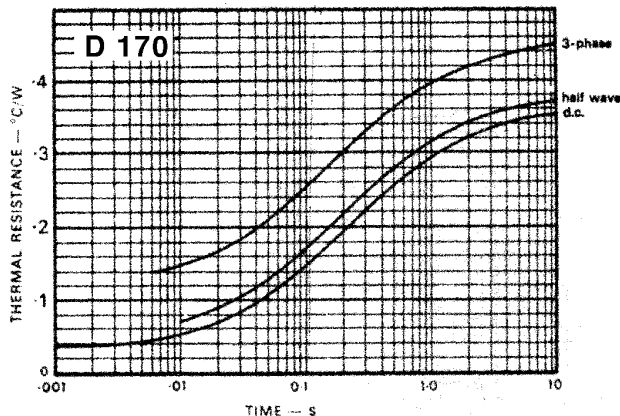
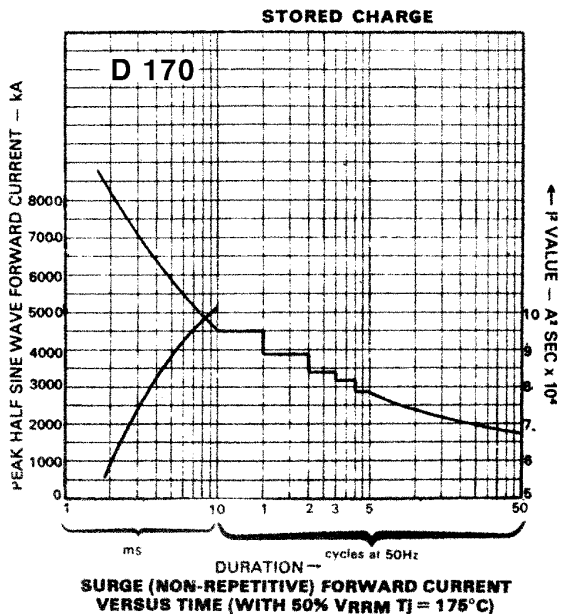
DISSIPATION CURVES



STORED CHARGE



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS

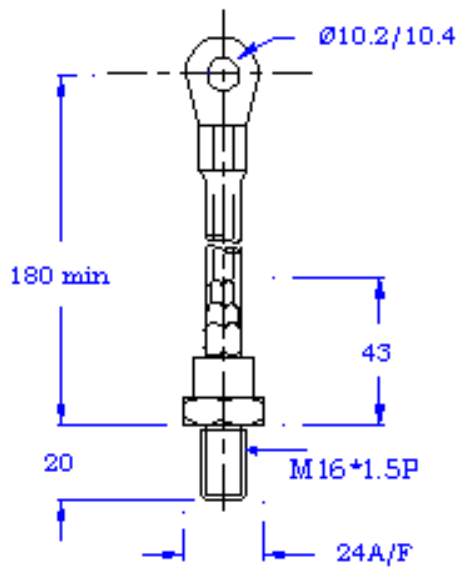


MAXIMUM (LIMIT) THERMAL RESISTANCE (JUNCTION TO HEATSINK SURFACE)

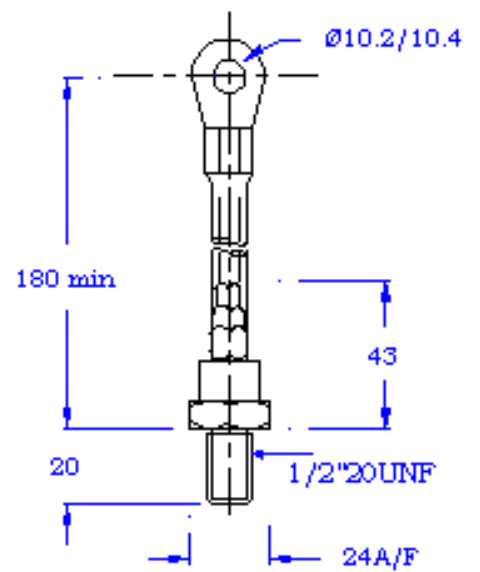
# PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm



Mounting Torque 10NM **W**



Mounting Torque 10NM **M**