

# Rectifier Diode

## D16



### Technical Data

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

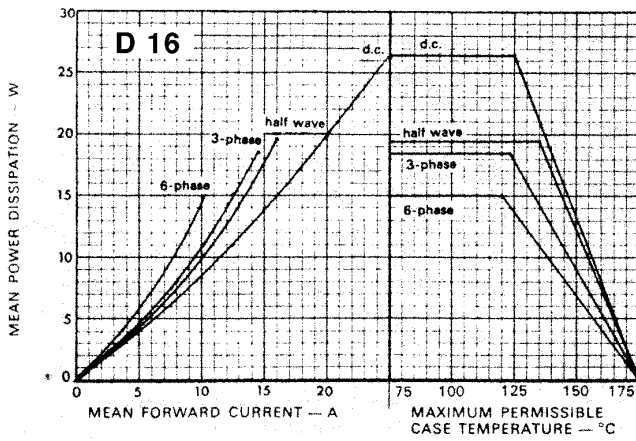
Type No.	$V_{RRM}$ (Volts)	$V_{RSM}$ (Volts)
D16/02	200	300
D16/04	400	500
D16/08	800	900
D16/12	1200	1300
D16/16	1600	1700

### Features

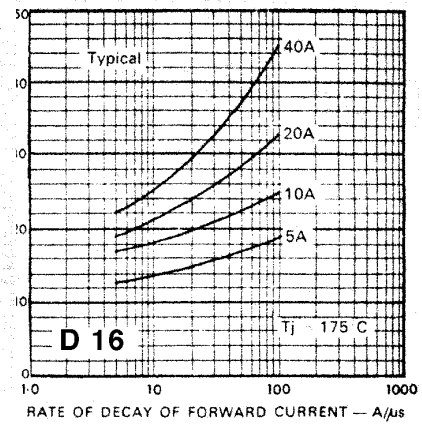
- Reverse voltage upto 1600V.
- Hermetic glass to metal seal.
- C : Cathode to stud.
- A : Anode to stud.

Symbol	Conditions	Values
$I_{F(AV)}$	Half resistive load; $T_{case} = 135\text{ }^{\circ}\text{C}$	16 A
$I_{FSM}$	$T_{vj} = 175\text{ }^{\circ}\text{C}$ ; 10 ms with 50% $V_{RRM}$	230 A
$I^2t$	$T_{vj} = 175\text{ }^{\circ}\text{C}$ ; 10 ms	288 $\text{A}^2\text{s}$
	$T_{vj} = 175\text{ }^{\circ}\text{C}$ ; 3 ms	190 $\text{A}^2\text{s}$
$I_{RRM}$	$T_{vj} = 175\text{ }^{\circ}\text{C}$	1 mA max
$V_F$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; $I_F = 50\text{ A}$	1.3 V max
$V_0$	$T_{vj} = 175\text{ }^{\circ}\text{C}$	0.80 V
$R_0$	$T_{vj} = 175\text{ }^{\circ}\text{C}$	12 m
$R_{th(j-c)}$	Half wave	2.05 $^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$		0.5 $^{\circ}\text{C}/\text{W}$
$T_{vj}$		175 $^{\circ}\text{C}$
$T_{stg}$		-40.....+ 175 $^{\circ}\text{C}$
Mounting torque	SI units	2 Nm
Weight	Approx	20 g
Case outline		C/P

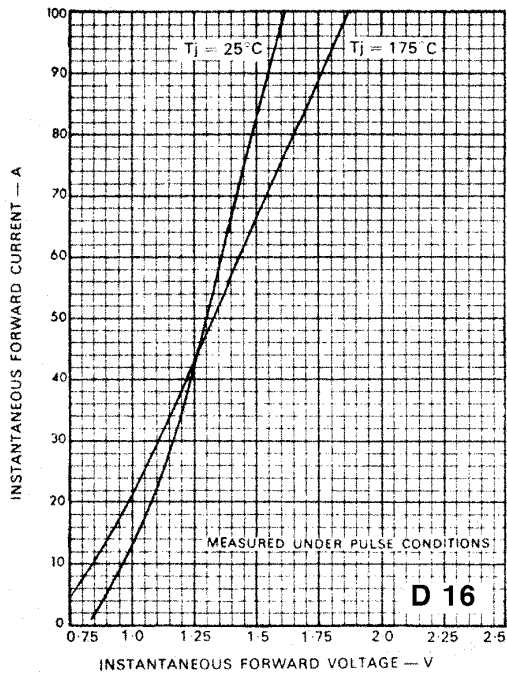




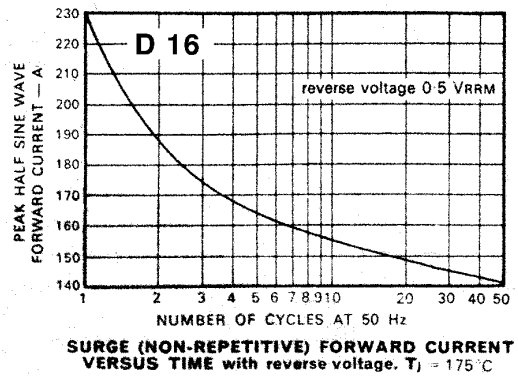
**DISSIPATION CURVES**



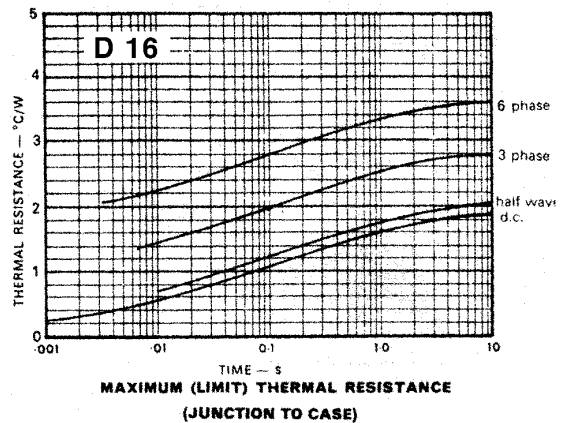
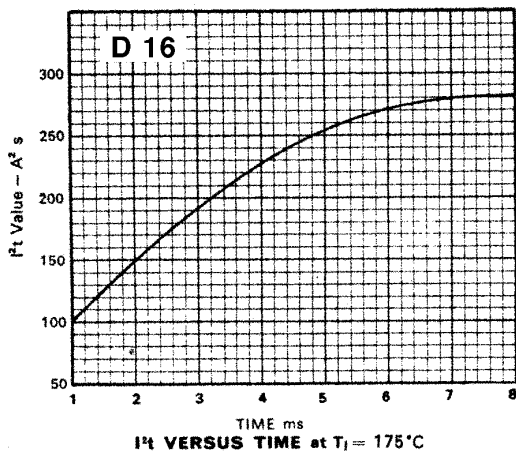
**STORED CHARGE**



**MAXIMUM (LIMIT) FORWARD CHARACTERISTICS**



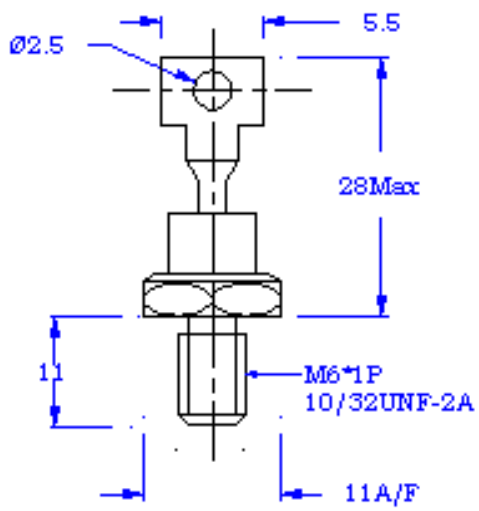
**SURGE (NON-REPETITIVE) FORWARD CURRENT VERSUS TIME with reverse voltage,  $T_j = 175^\circ\text{C}$**



# PACAKAGE DEATILS

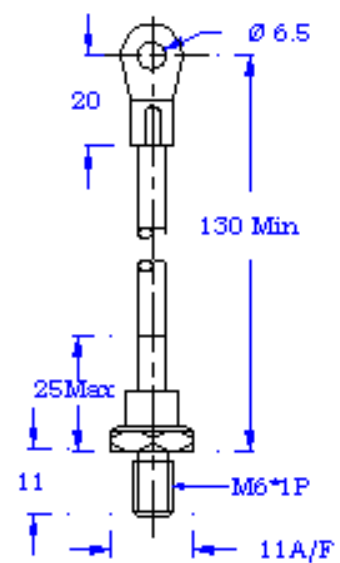
DO NOT SCALE

All Dimensions in mm



Mounting Torque 2NM

C



Mounting Torque 2NM

P