

Rectifier Diode D16



Technical Data

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

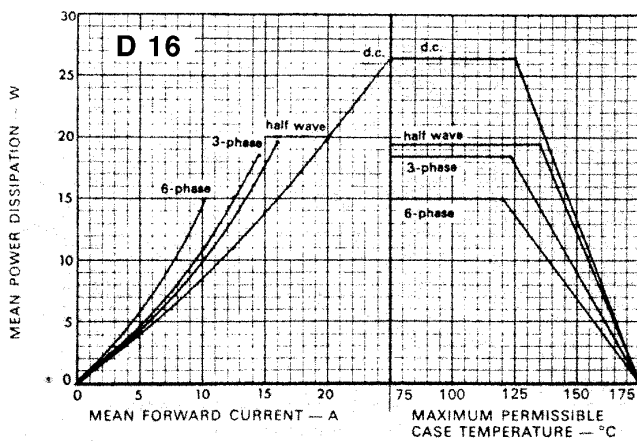
Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
D16/02	200	300
D16/04	400	500
D16/08	800	900
D16/12	1200	1300
D16/16	1600	1700

Features

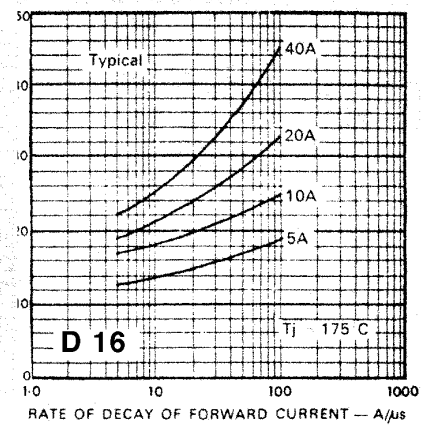
- Reverse voltage upto 1600V.
- Hermatic glass to metal seal.
- C : Cathode to stud.
- A : Anode to stud.

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

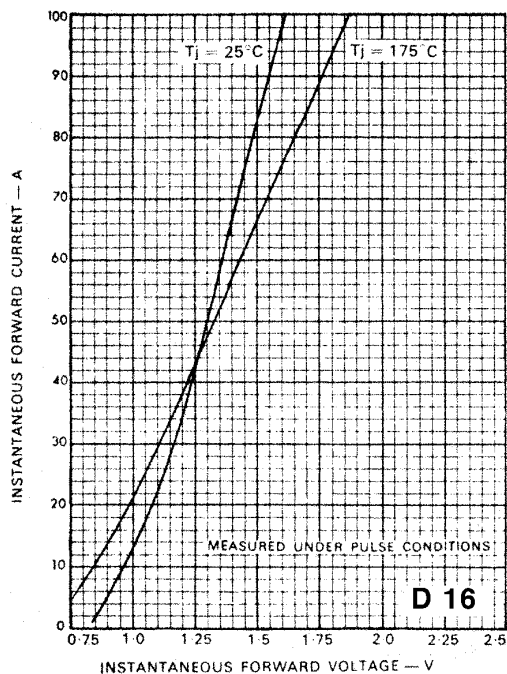




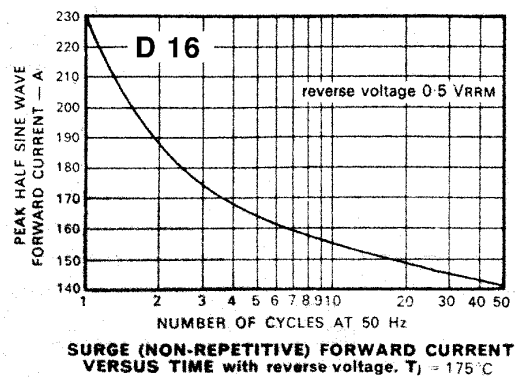
DISSIPATION CURVES



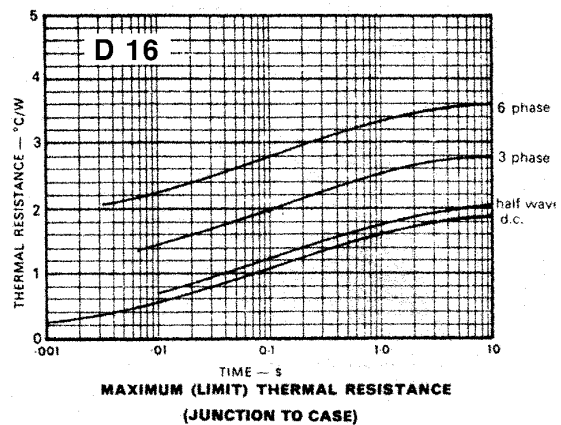
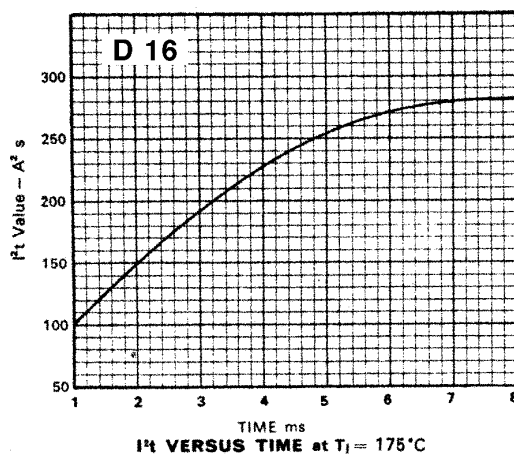
STORED CHARGE



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS



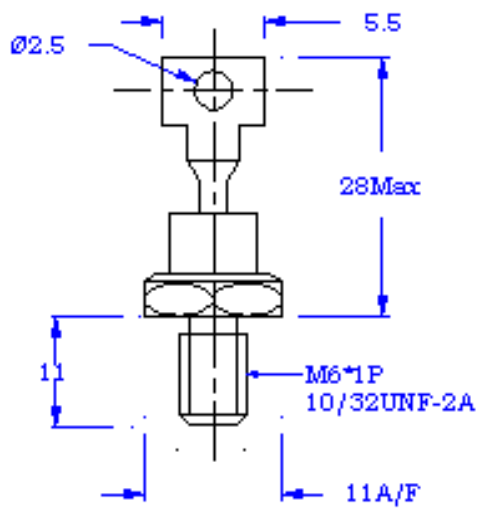
SURGE (NON-REPETITIVE) FORWARD CURRENT VERSUS TIME with reverse voltage. $T_J = 175^\circ\text{C}$



PACAKAGE DEATILS

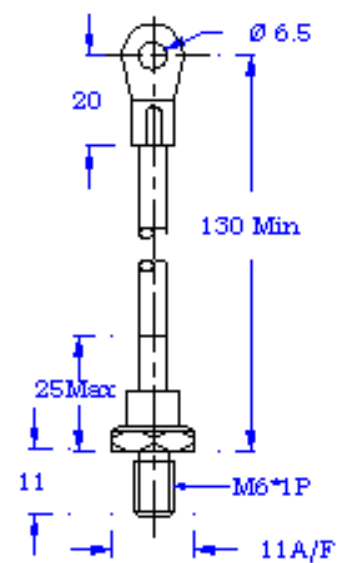
DO NOT SCALE

All Dimensions in mm



Mounting Torque 2NM

C



Mounting Torque 2NM

P