

Rectifier Diode

D12



Technical Data

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

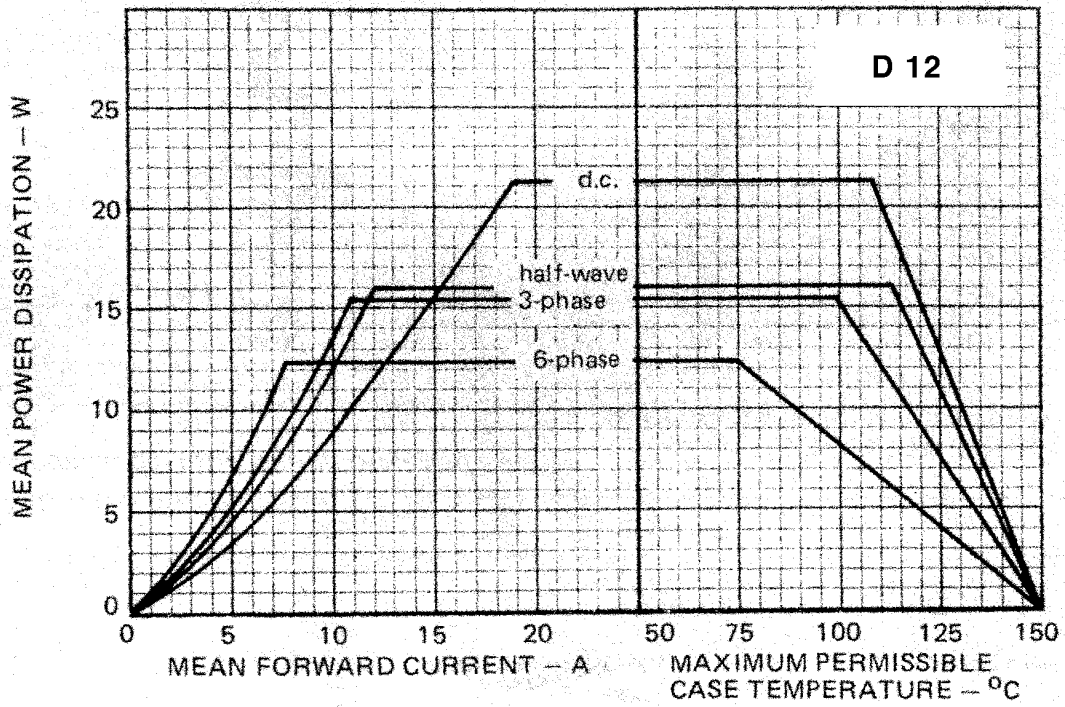
Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
D12/02	200	300
D12/04	400	500
D12/08	800	900
D12/12	1200	1300
D12/16	1600	1700

Features

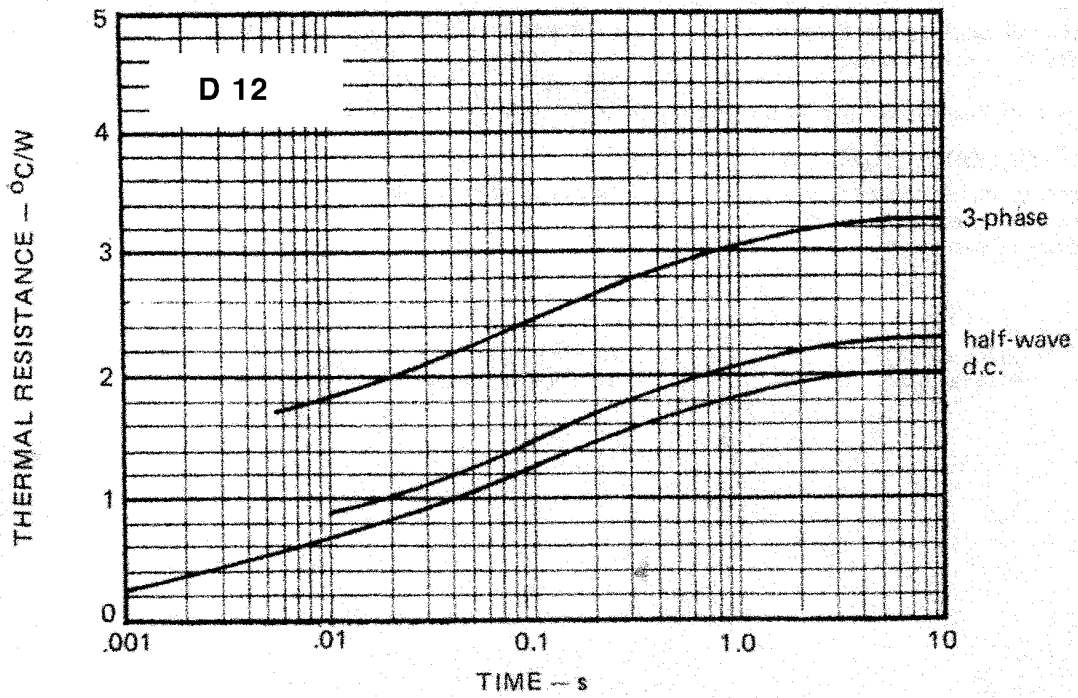
- Reverse voltage upto 1600V.
- Hermetic glass to metal seal
- C : Cathode to stud
- A : Anode to stud

Symbol	Conditions	Values
$I_{F(AV)}$	Half resistive load; $T_{case} = 113\text{ }^{\circ}\text{C}$	12 A
I_{FSM}	$T_{vj} = 150\text{ }^{\circ}\text{C}$; 10 ms with 50% V_{RRM}	150 A
I^2t	$T_{vj} = 150\text{ }^{\circ}\text{C}$; 10 ms	110 A^2s
	$T_{vj} = 150\text{ }^{\circ}\text{C}$; 3 ms	93 A^2s
I_{RRM}	$T_{vj} = 150\text{ }^{\circ}\text{C}$	1 mA max
V_F	$T_{vj} = 25\text{ }^{\circ}\text{C}$; $I_F = 40\text{ A}$	1.5V max
V_0	$T_{vj} = 150\text{ }^{\circ}\text{C}$	0.90V
R_0	$T_{vj} = 150\text{ }^{\circ}\text{C}$	25 m
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	Half wave	2.35 $^{\circ}\text{C}/\text{W}$
		0.5 $^{\circ}\text{C}/\text{W}$
		150 $^{\circ}\text{C}$
		-40.....+ 150 $^{\circ}\text{C}$
Mounting torque	SI units	2 Nm
Weight	Approx	20 g
Case outline		C/P

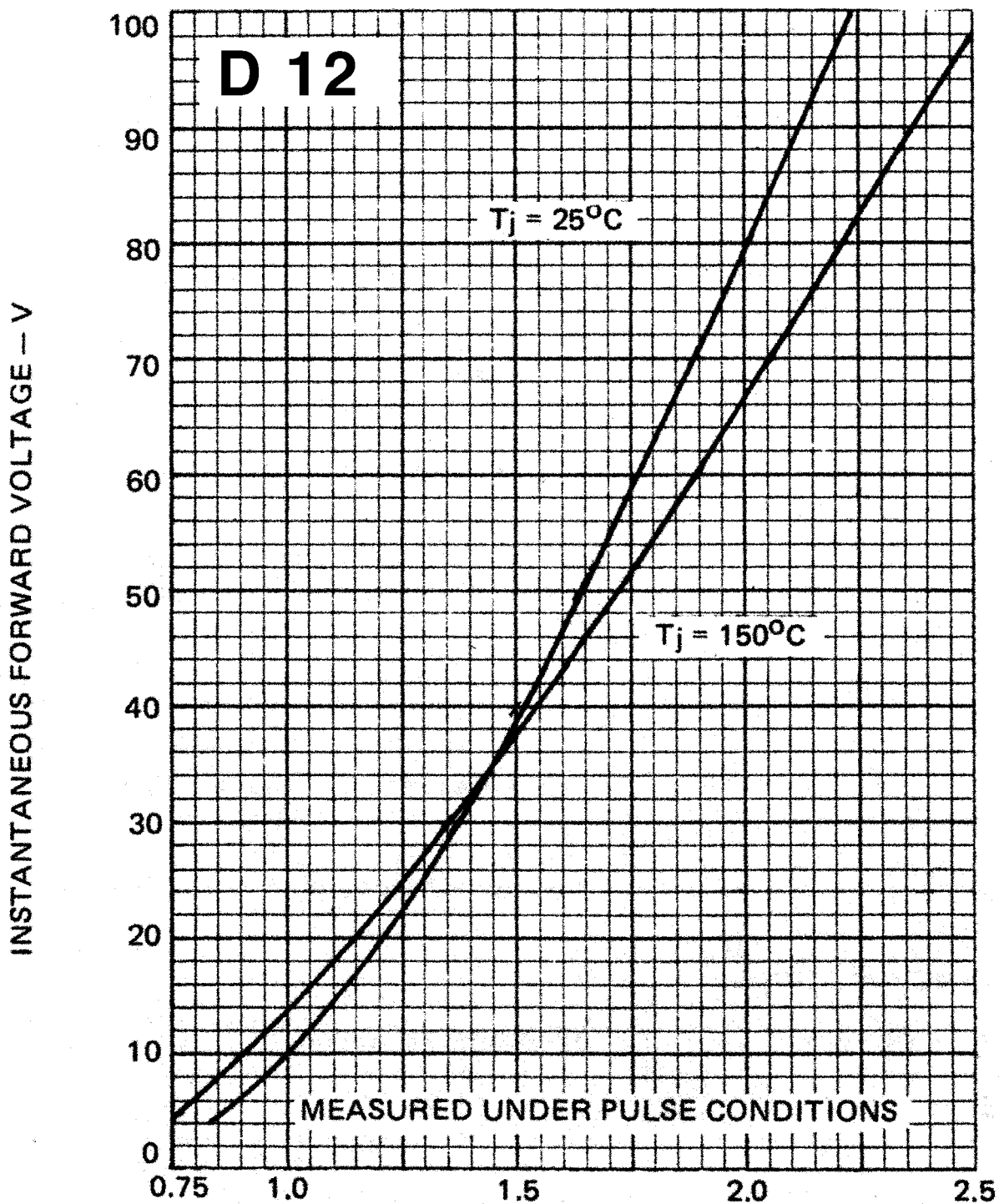




DISSIPATION CURVES:



MAXIMUM (LIMIT) TRANSIENT THERMAL RESISTANCE



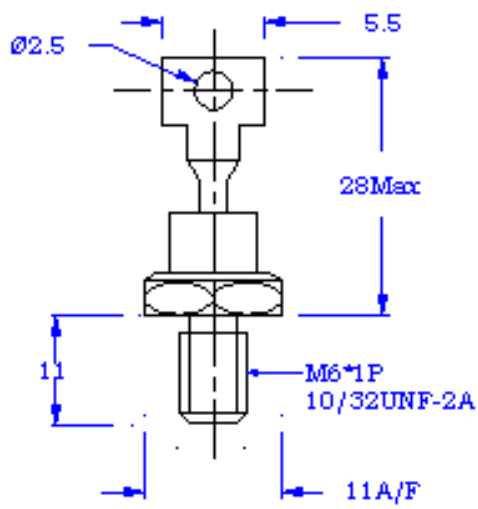
INSTANTANEOUS FORWARD CURRENT — A

MAXIMUM (LIMIT) FORWARD CHARACTERISTICS

PACAKAGE DEATILS

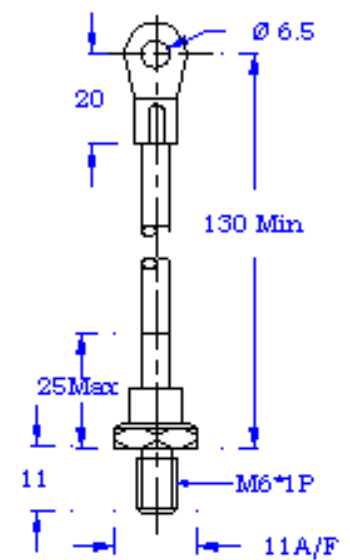
DO NOT SCALE

All Dimensions in mm



Mounting Torque 2NM

C



Mounting Torque 2NM

P