

# Rectifier Diode D40



## Technical Data

Typical applications :All purpose high power rectifier diodes, Non-controllable and half controlled rectifiers .

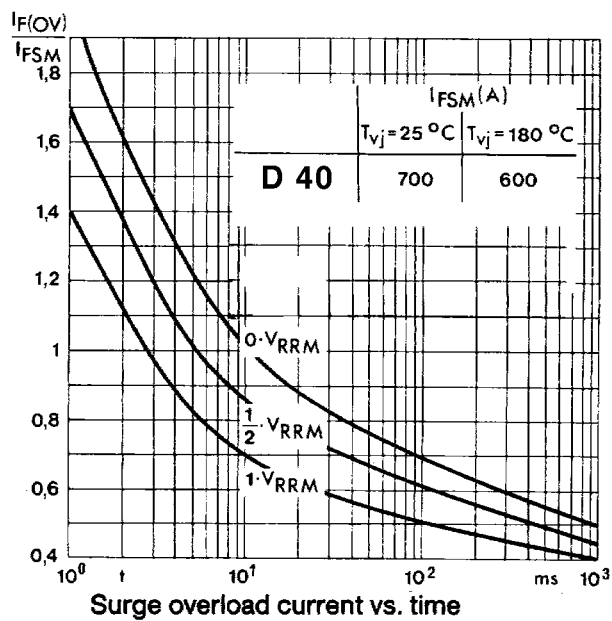
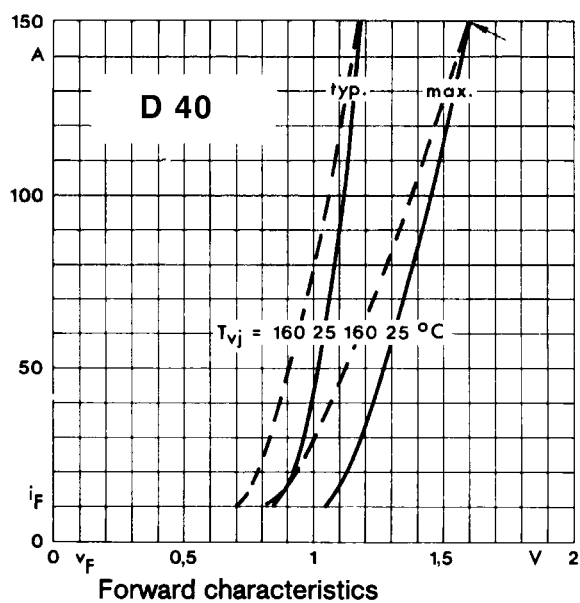
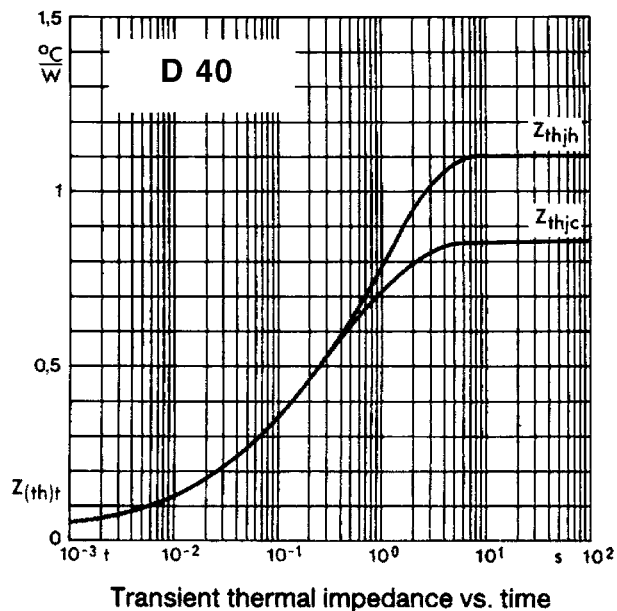
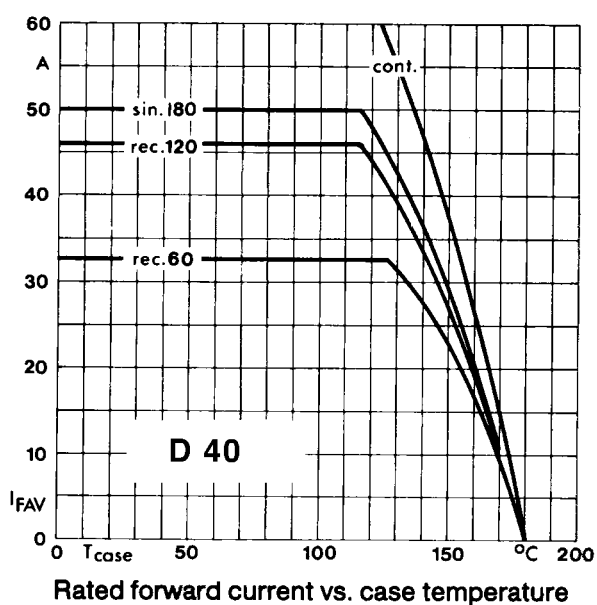
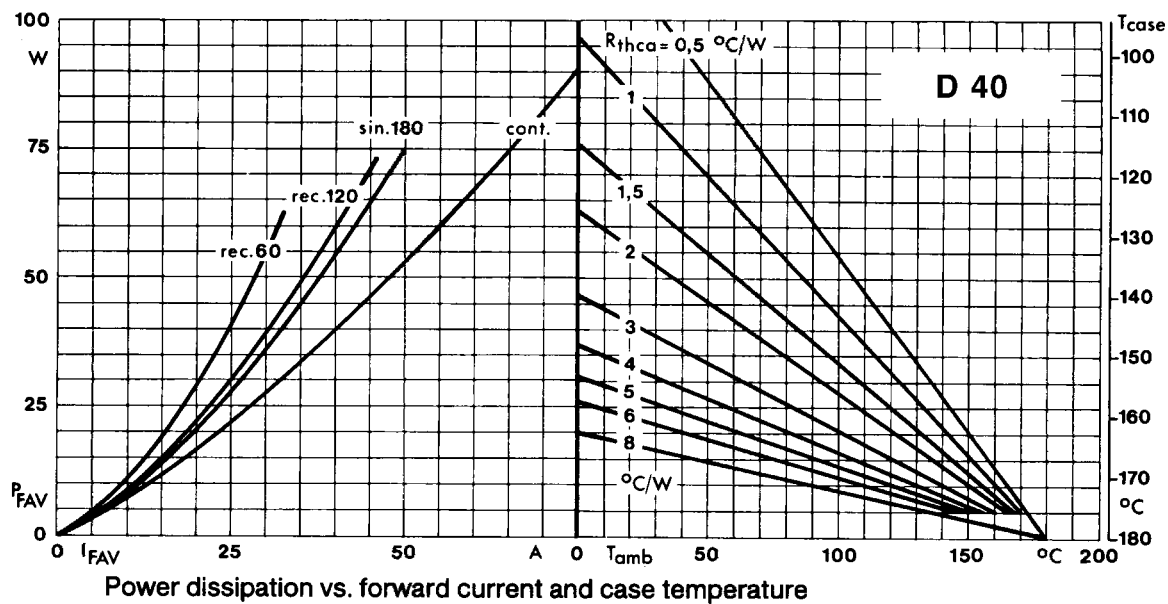
| Type No. | $V_{RRM}$<br>(Volts) | $V_{RSM}$<br>(Volts) |
|----------|----------------------|----------------------|
| D40/02   | 200                  | 300                  |
| D40/04   | 400                  | 500                  |
| D40/08   | 800                  | 900                  |
| D40/12   | 1200                 | 1300                 |
| D40/16   | 1600                 | 1700                 |

### Features

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

| Symbol                                                  | Conditions                                                                                   | Values                                                                                   |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| $I_{F(AV)}$                                             | Sin 180 ; $T_{case} = 125^{\circ}C$                                                          | 40 A                                                                                     |
| $I_{FSM}$                                               | $T_{vj} = 25^{\circ}C$ ; 10 ms<br>$T_{vj} = 180^{\circ}C$ ; 10 ms                            | 700 A<br>600 A                                                                           |
| $I^2t$                                                  | $T_{vj} = 25^{\circ}C$<br>$T_{vj} = 180^{\circ}C$                                            | 2500 A <sup>2</sup> s<br>1800 A <sup>2</sup> s                                           |
| $I_{RRM}$                                               | $T_{vj} = 180^{\circ}C$                                                                      | 10 mA max                                                                                |
| $V_F$<br>$V_0$<br>$R_0$                                 | $T_{vj} = 25^{\circ}C$ ; $I_F = 150 A$<br>$T_{vj} = 180^{\circ}C$<br>$T_{vj} = 180^{\circ}C$ | 1.6 V max<br>0.85 V<br>5 mW                                                              |
| $R_{th(j-c)}$<br>$R_{th(c-h)}$<br>$T_{vj}$<br>$T_{stg}$ |                                                                                              | 0.85 $^{\circ}C/W$<br>0.25 $^{\circ}C/W$<br>180 $^{\circ}C$<br>-40.....+ 180 $^{\circ}C$ |
| Mounting torque                                         | SI units                                                                                     | 4 Nm                                                                                     |
| Weight                                                  | Approx                                                                                       | 30 g                                                                                     |
| Case outline                                            |                                                                                              | D/L                                                                                      |

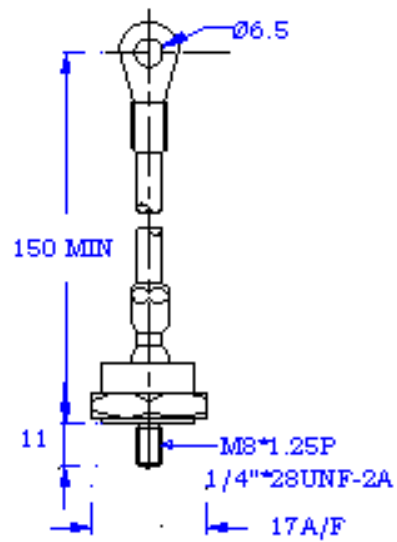




## PACAKAGE DEATILS

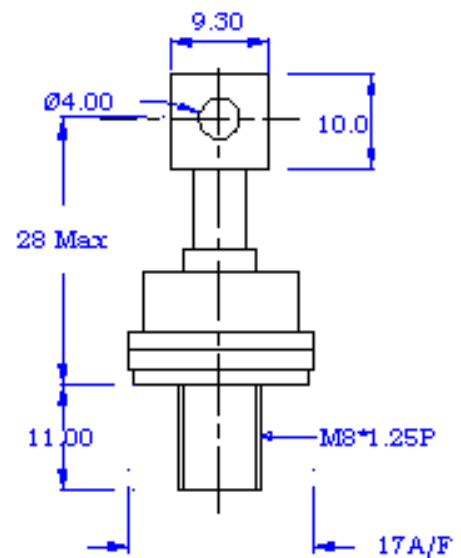
DO NOT SCALE

All Dimensions in mm



Mounting Torque 4NM

D



Mounting Torque 4NM

L