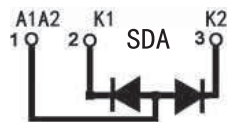
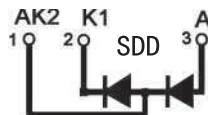


# SDD/SDA/SDK100NXXB

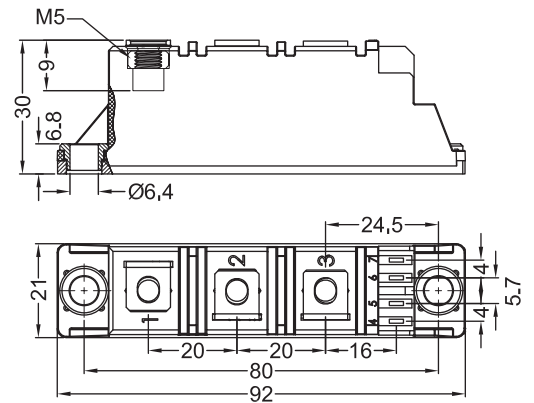
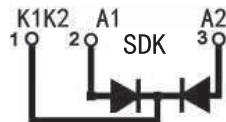
## Diode-Diode Modules

□olerance:±0.5mm

Dimensions in mm (1mm=0.0394")



| Type       | V <sub>RSM</sub><br>V | V <sub>RRM</sub><br>V |
|------------|-----------------------|-----------------------|
| SDD100N08B | 900                   | 800                   |
| SDD100N12B | 1300                  | 1200                  |
| SDD100N14B | 1500                  | 1400                  |
| SDD100N16B | 1700                  | 1600                  |
| SDD100N18B | 1900                  | 1800                  |



| Symbol  | Test Conditions   | Maximum Ratings                 | Unit             |
|---|---|---------------------------------|------------------|
| I <sub>FRMS</sub><br>I <sub>FAVM</sub>                  | T <sub>VJ</sub> =T <sub>VJM</sub><br>T <sub>C</sub> =100°C; 180° sine                               | 180<br>100                      | A                |
| I <sub>FSM</sub>  | T <sub>VJ</sub> =45°C<br>V <sub>R</sub> =0<br>t=10ms (50Hz), sine<br>t=8.3ms (60Hz), sine           | 1700<br>1950                    | A                |
|   | T <sub>VJ</sub> =T <sub>VJM</sub><br>V <sub>R</sub> =0<br>t=10ms(50Hz), sine<br>t=8.3ms(60Hz), sine | 1540<br>1800                    |                  |
| ∫ <sub>i</sub> <sup>2</sup> dt                          | T <sub>VJ</sub> =45°C<br>V <sub>R</sub> =0<br>t=10ms (50Hz), sine<br>t=8.3ms (60Hz), sine           | 14450<br>15700                  | A <sup>2</sup> s |
|   | T <sub>VJ</sub> =T <sub>VJM</sub><br>V <sub>R</sub> =0<br>t=10ms(50Hz), sine<br>t=8.3ms(60Hz), sine | 11850<br>13400                  |                  |
| T <sub>VJ</sub><br>T <sub>VJM</sub><br>T <sub>stg</sub> |   | -40...+150<br>150<br>-40...+125 | °C               |
| V <sub>ISOL</sub>                                       | 50/60Hz, RMS<br>I <sub>ISOL</sub> ≤1mA<br>t=1min<br>t=1s  | 3000<br>3600                    | V~               |
| M <sub>d</sub>  | Mounting torque (M5)<br>Terminal connection torque (M5)   | 2.5-4/22-35<br>2.5-4/22-35      | Nm/lb.in.        |
| Weight  | Typ.  | 105                             | g                |

# SDD/SDA/SDK100NXXB

## Diode-Diode Modules

| Symbol                  | Test Conditions   | Characteristic Values | Unit             |
|-------------------------|---|-----------------------|------------------|
| <b>I<sub>R</sub></b>    | T <sub>VJ</sub> =T <sub>VJM</sub> ; V <sub>R</sub> =V <sub>R<sub>RM</sub></sub> | 15                    | mA               |
| <b>V<sub>F</sub></b>    | I <sub>F</sub> =300A; T <sub>VJ</sub> =25°C                                     | 1.5                   | V                |
| <b>V<sub>TO</sub></b>   | For power-loss calculations only  | 0.8                   | V                |
| <b>r<sub>T</sub></b>    | T <sub>VJ</sub> =T <sub>VJM</sub>   | 2.3                   | mΩ               |
| <b>Q<sub>S</sub></b>    | T <sub>VJ</sub> =125°C; I <sub>F</sub> =50A; -di/dt=3A/us                       | 170                   | uC               |
| <b>I<sub>RM</sub></b>   |   | 45                    | A                |
| <b>R<sub>thJC</sub></b> | per diode; DC current<br>per module   | 0.35<br>0.175         | K/W              |
| <b>R<sub>thJK</sub></b> | per diode; DC current<br>per module   | 0.55<br>0.275         | K/W              |
| <b>d<sub>s</sub></b>    | Creepage distance on surface  | 12.7                  | mm               |
| <b>d<sub>A</sub></b>    | Strike distance through air   | 9.6                   | mm               |
| <b>a</b>                | Maximum allowable acceleration  | 50                    | m/s <sup>2</sup> |

### FEATURES

- \* International standard package
- \* Copper base plate
- \* Glass passivated chips
- \* Isolation voltage 3600 V~
- \* UL file NO.310749
- \* RoHs compliant

### APPLICATIONS

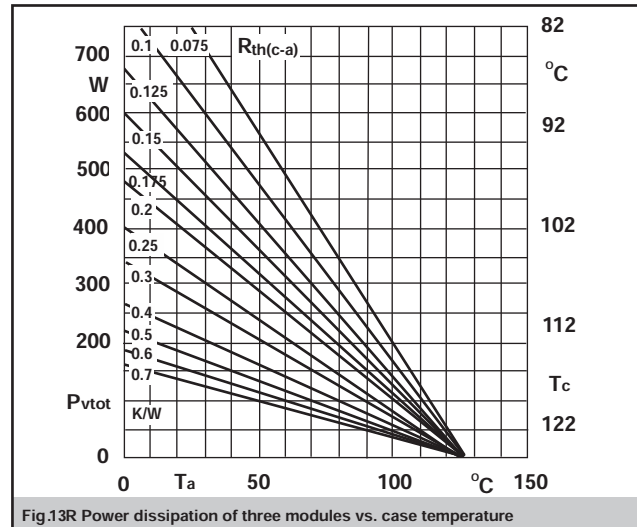
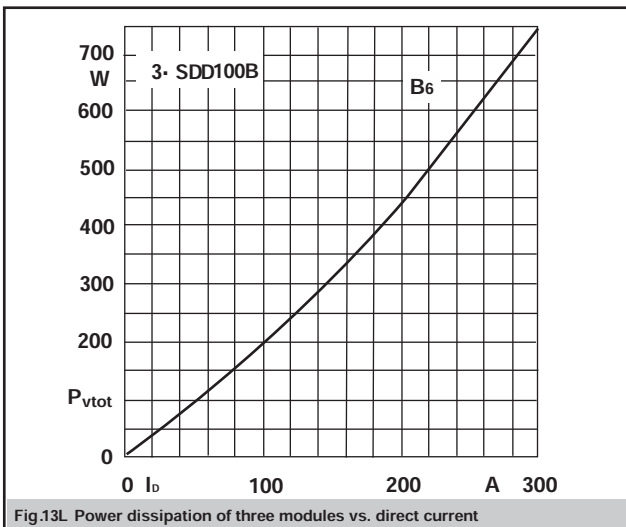
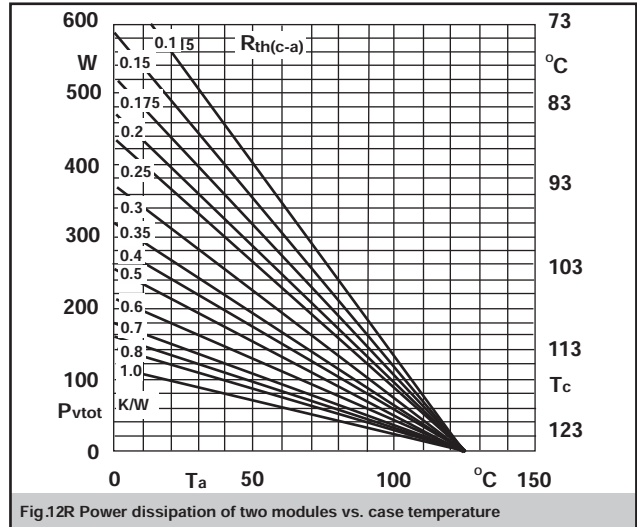
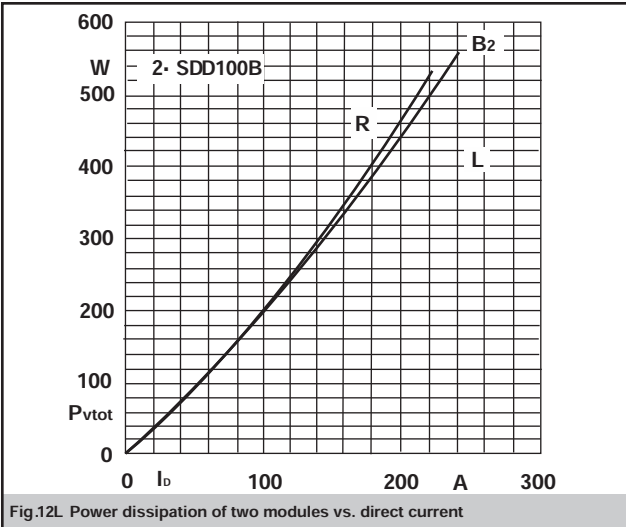
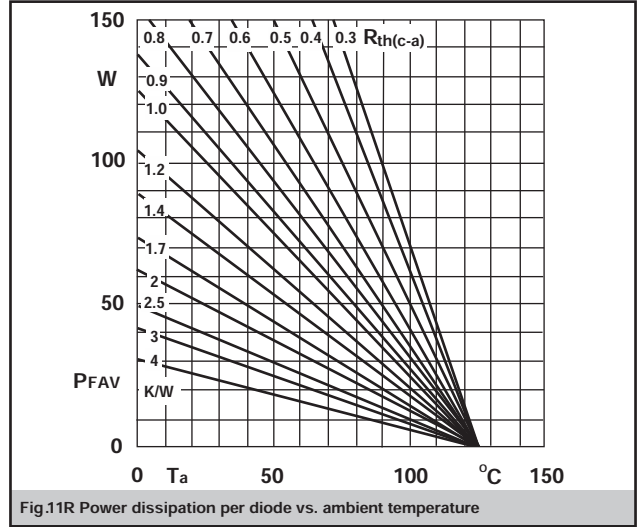
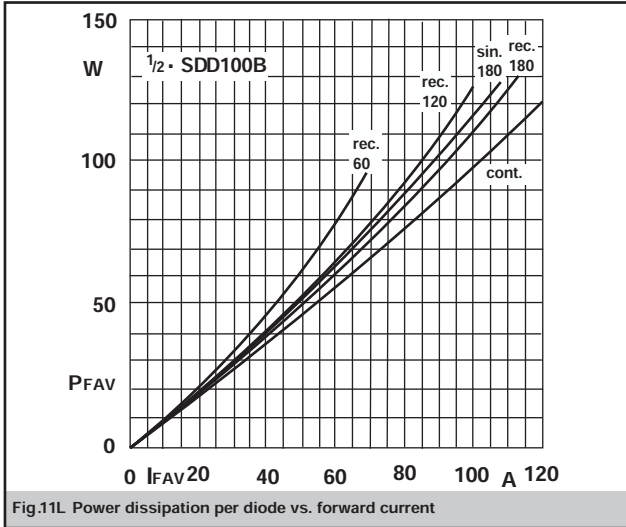
- \* Supplies for DC power equipment
- \* DC supply for PWM inverter
- \* Field supply for DC motors
- \* Battery DC power supplies

### ADVANTAGES

- \* Space and weight savings
- \* Simple mounting
- \* Improved temperature and power cycling
- \* Reduced protection circuits

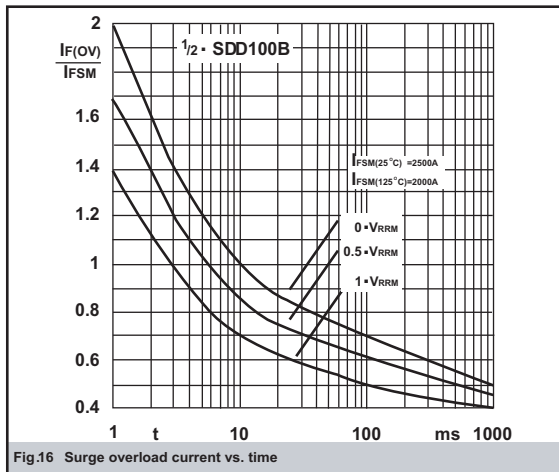
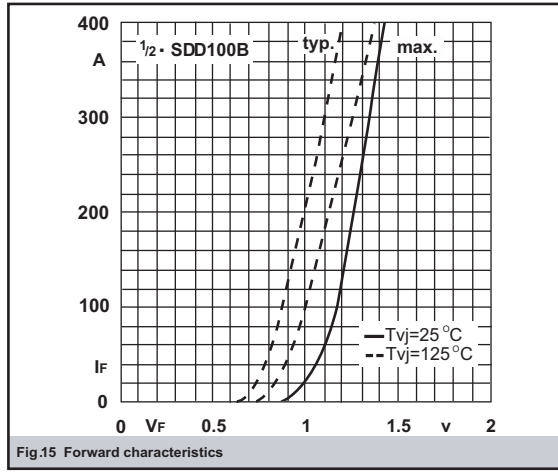
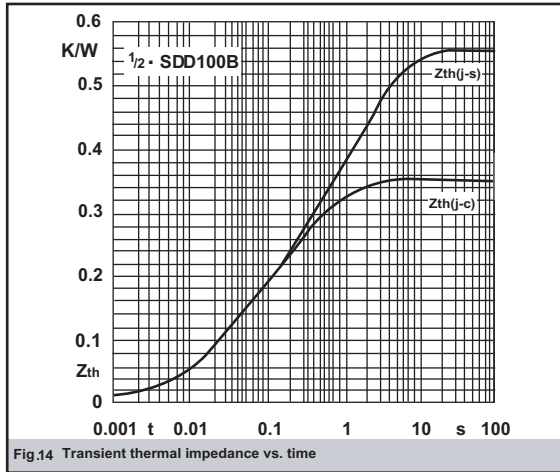
# SDD/SDA/SDK100NXXB

## Diode-Diode Modules



# SDD/SDA/SDK100NXXB

## Diode-Diode Modules



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