

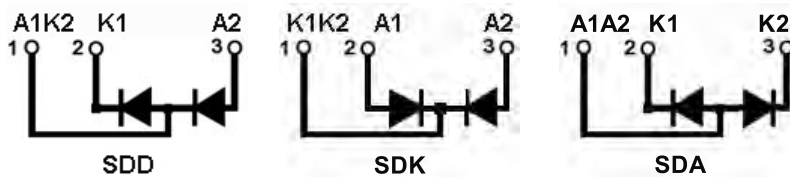
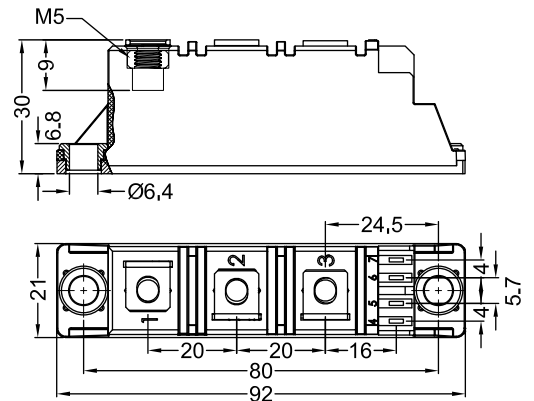
SDD1&0NXXB

Diode-Diode Modules



| Type | V _{RSM} V | V _{RRM} V |
|------------|-----------------------|-----------------------|
| SDD120N08B | 900 | 800 |
| SDD120N12B | 1300 | 1200 |
| SDD120N14B | 1500 | 1400 |
| SDD120N16B | 1700 | 1600 |
| SDD120N18B | 1900 | 1800 |
| SDD120N20B | 2100 | 2000 |
| SDD120N22B | 2300 | 2200 |

Holerance: ±0.5mm
Dimensions in mm (1mm=0.0394")



| Symbol | Test Conditions | Maximum Ratings | Unit |
|---|---|---------------------------------|------------------|
| I _{FRMS} I _{FAVM} | T _{VJ} =T _{VJM} T _C =100°C; 180° sine | 188 120 | A |
| I _{FSM} | T _{VJ} =45°C V _R =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine | 2800 3300 | A |
| | T _{VJ} =T _{VJM} V _R =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine | 2500 2750 | |
| ∫i ² dt | T _{VJ} =45°C V _R =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine | 39200 45000 | A ² s |
| | T _{VJ} =T _{VJM} V _R =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine | 31200 31300 | |
| T _{VJ} T _{VJM} T _{stg} | | -40...+150 150 -40...+125 | °C |
| V _{ISOL} | 50/60Hz, RMS I _{ISOL} ≤1mA t=1min t=1s | 3000 3600 | V~ |
| M _d | Mounting torque (M5) Terminal connection torque (M5) | 2.5-4/22-35 2.5-4/22-35 | Nm/lb.in. |
| Weight | Typ. | 105 | g |

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Diode-Diode Modules

| Symbol | Test Conditions | Characteristic Values | Unit |
|------------|--|-----------------------|----------|
| I_R | $T_{VJ}=T_{VJM}; V_R=V_{RRM}$ | 15 | mA |
| V_F | $I_F=360A; T_{VJ}=25^{\circ}C$ | 1.63 | V |
| V_{To} | For power-loss calculations only | 0.75 | V |
| r_T | $T_{VJ}=T_{VJM}$ | 1.95 | Ω |
| Q_s | $T_{VJ}=125^{\circ}C; I_F=50A; -di/dt=3A/us$ | 170 | μC |
| I_{RM} | | 45 | A |
| R_{thJC} | per diode; DC current per module | 0.30 0.145 | K/W |
| R_{thJK} | per diode; DC current per module | 0.50 0.245 | K/W |
| ds | Creepage distance on surface | 12.7 | mm |
| da | Strike distance through air | 9.6 | mm |
| a | Maximum allowable acceleration | 50 | m/s^2 |

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

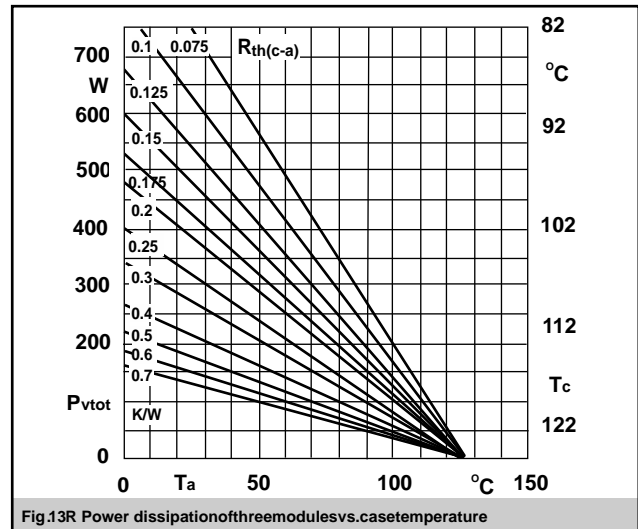
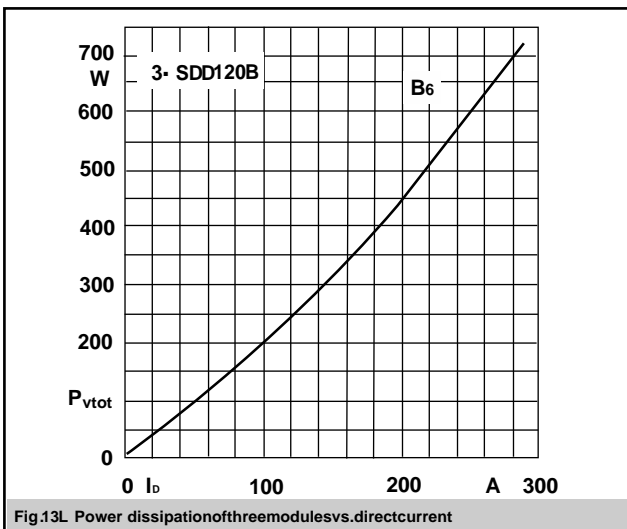
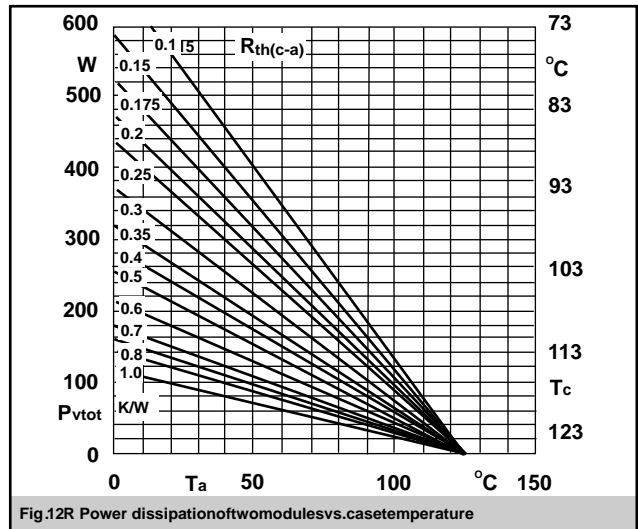
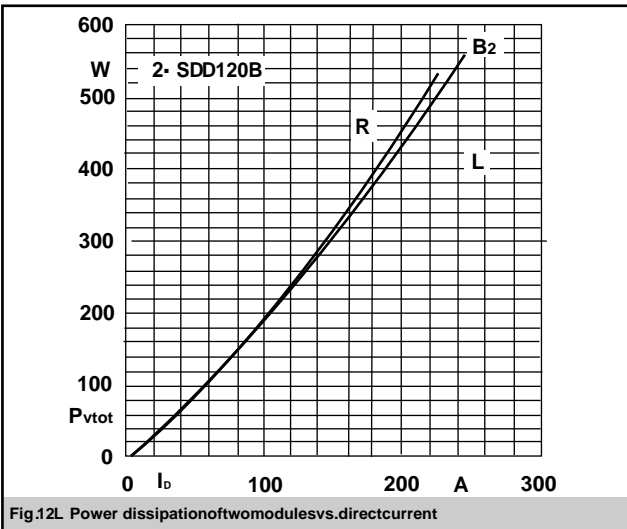
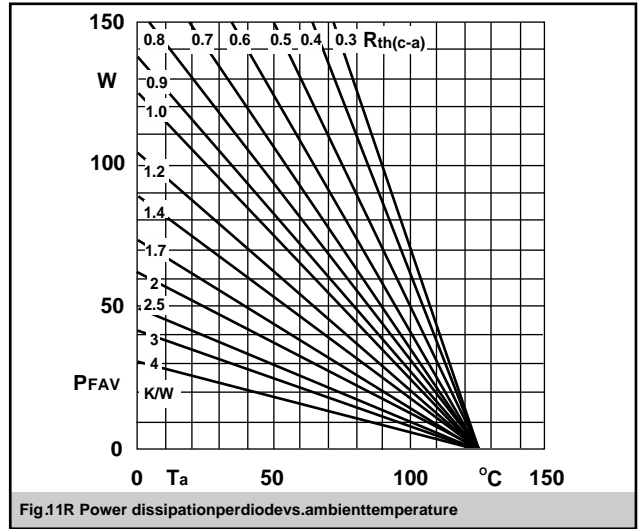
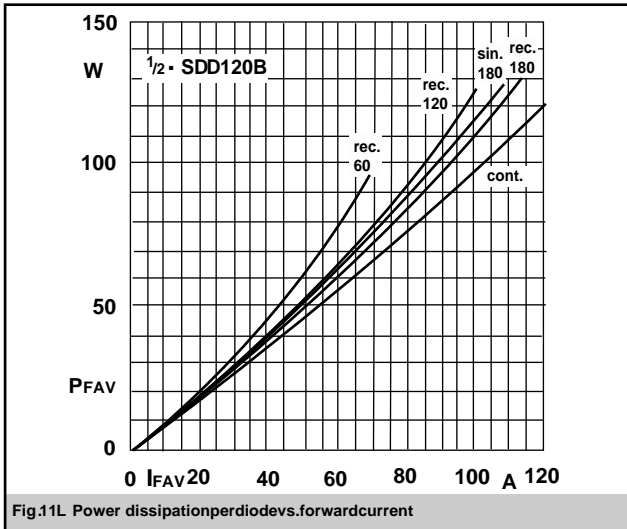
- * Space and weight savings
- * Simple mounting
- * Improved temperature and power cycling
- * Reduced protection circuits

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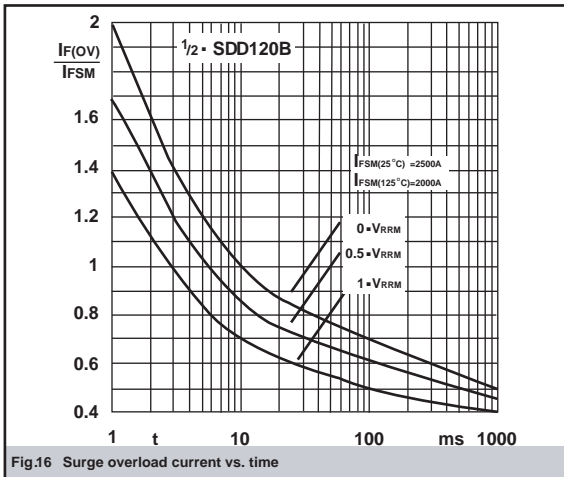
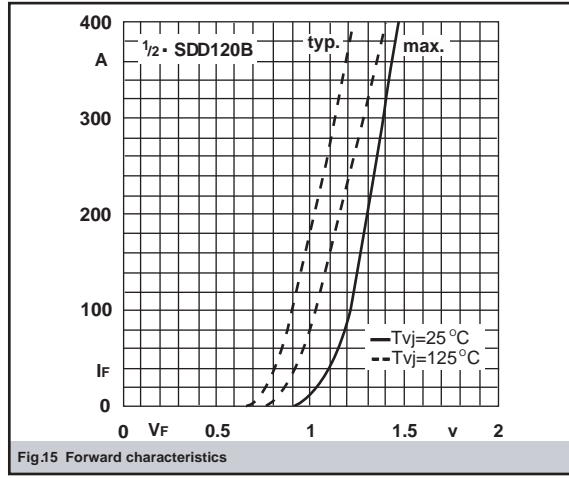
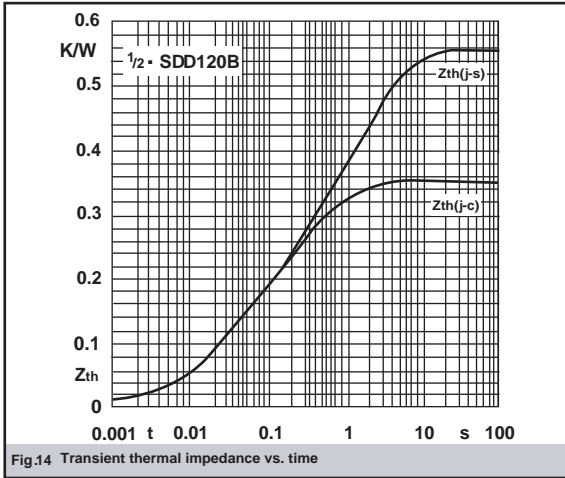
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