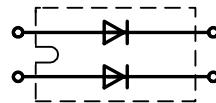


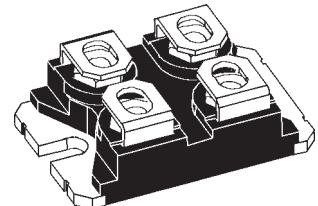
Power Schottky Rectifier

I_{FAV} = 2x60 A
V_{RRM} = 100 V
V_F = 0.74 V

| V _{RSM} | V _{RRM} | Type |
|------------------|------------------|--------------|
| V | V | |
| 100 | 100 | DSS 2x61-01A |



miniBLOC, SOT-227 B



| Symbol | Conditions | Maximum Ratings | |
|-----------------------|--|--|------|
| I _{FRMS} | | 100 | A |
| I _{FAVM} | T _C = 105°C; rectangular, d = 0.5 | 60 | A |
| I _{FAVM} | T _C = 105°C; rectangular, d = 0.5; per device | 120 | A |
| I _{FSM} | T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine | 700 | A |
| E _{AS} | I _{AS} = 15 A; L = 100 µH; T _{VJ} = 25°C; non repetitive | 11.3 | mJ |
| I _{AR} | V _A = 1.5 • V _{RRM} typ.; f = 10 kHz; repetitive | 1.5 | A |
| (dV/dt) _{cr} | | 5000 | V/µs |
| T _{VJ} | | -40...+150 | °C |
| T _{VJM} | | 150 | °C |
| T _{stg} | | -40...+150 | °C |
| P _{tot} | T _C = 25°C | 150 | W |
| V _{ISOL} | 50/60 Hz, RMS I _{ISOL} ≤ 1 mA | 2500 | V~ |
| M _d | mounting torque (M4) terminal connection torque (M4) | 1.1-1.5/9-13 Nm/lb.in. 1.1-1.5/9-13 Nm/lb.in. | |
| Weight | typical | 30 | g |

| Symbol | Conditions | Characteristic Values | |
|-------------------|--|-----------------------|------|
| | | typ. | max. |
| I _R ① | V _R = V _{RRM} ; T _{VJ} = 25°C V _R = V _{RRM} ; T _{VJ} = 125°C | 2 20 | mA |
| V _F | I _F = 60 A; T _{VJ} = 125°C I _F = 60 A; T _{VJ} = 25°C I _F = 120 A; T _{VJ} = 125°C | 0.74 0.91 0.95 | V |
| R _{thJC} | | 0.8 | K/W |
| R _{thCH} | | 0.1 | K/W |

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0 %
Data according to IEC 60747 and per diode unless otherwise specified.

Features

- International standard package miniBLOC
- Isolation voltage 2500 V~
- UL registered E 72873
- 2 independent Schottky diodes in 1 package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values

Applications

- Rectifiers in switch mode power supplies (SMPS)
- Free wheeling diode in low voltage converters

Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching
- Low losses

Dimensions see Outlines.pdf

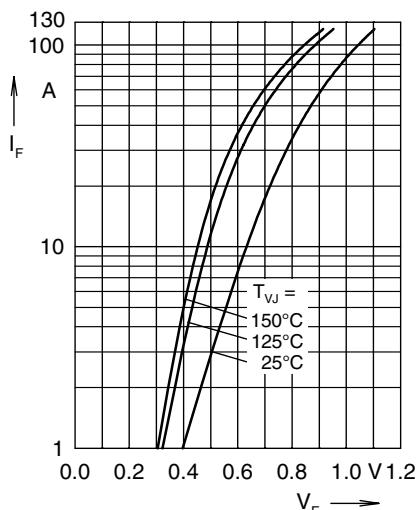


Fig. 1 Max. forward voltage drop characteristics

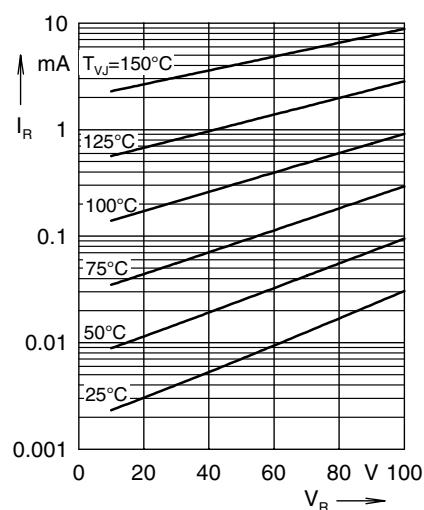


Fig. 2 Typ. reverse current I_R vs. reverse voltage V_R

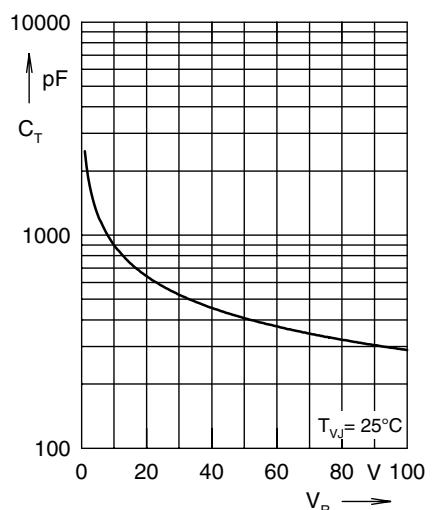


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

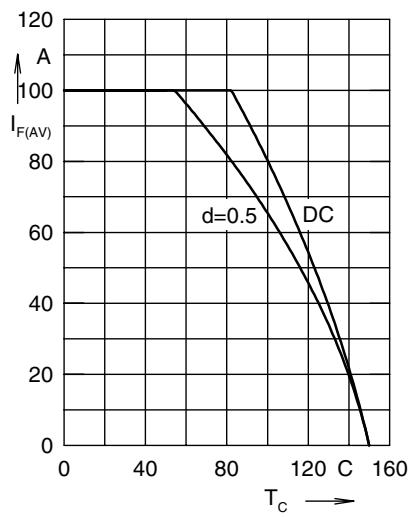


Fig. 4 Avg. forward current $I_{F(AV)}$ vs. case temperature T_C

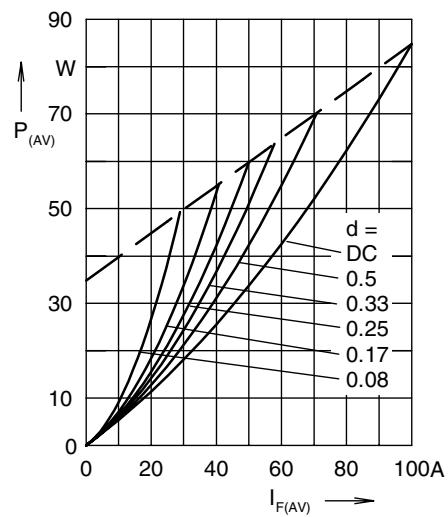


Fig. 5 Forward power loss characteristics

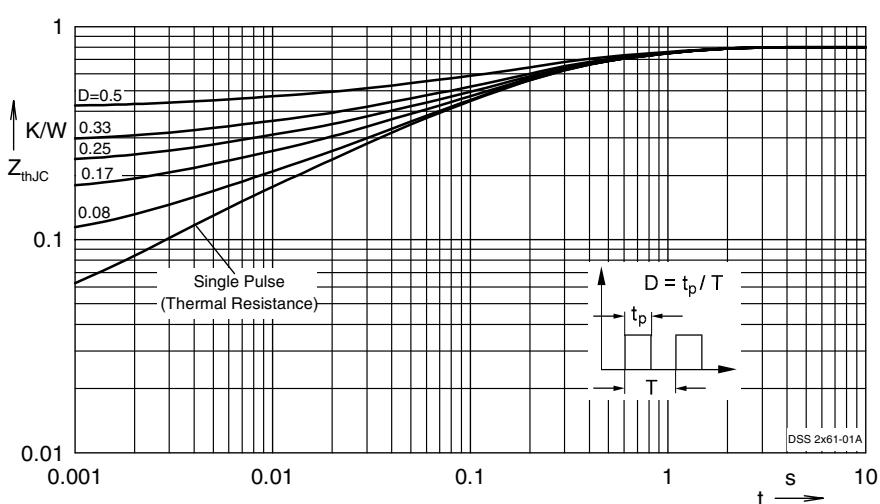


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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