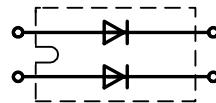


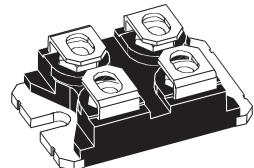
Power Schottky Rectifier

I_{FAV} = 2x100 A
V_{RRM} = 150 V
V_F = 0.77 V

V _{RSM}	V _{RRM}	Type
V	V	
150	150	DSS 2x101-015A



miniBLOC,
SOT-227 B



Symbol	Conditions	Maximum Ratings	
I _{FRMS}		150	A
I _{FAVM}	T _C = 110°C; rectangular, d = 0.5	100	A
I _{FAVM}	T _C = 110°C; rectangular, d = 0.5; per device	200	A
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	1200	A
E _{AS}	I _{AS} = 4 A; L = 100 μH; T _{VJ} = 25°C; non repetitive	0.8	mJ
I _{AR}	V _A = 1.5 • V _{RRM} typ.; f=10 kHz; repetitive	0.4	A
(dV/dt) _{cr}		18	kV/μs
T _{VJ}		-40...+150	°C
T _{VJM}		150	°C
T _{stg}		-40...+150	°C
P _{tot}	T _C = 25°C	310	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 1.1-1.5/9-13	Nm/lb.in. Nm/lb.in.
Weight	typical	30	g

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

Symbol	Conditions	Characteristic Values	
		typ.	max.
I _R	① T _{VJ} = 25°C V _R = V _{RRM} T _{VJ} = 125°C V _R = V _{RRM}	4 40	mA mA
V _F	I _F = 100 A; T _{VJ} = 125°C I _F = 100 A; T _{VJ} = 25°C I _F = 200 A; T _{VJ} = 125°C	0.77 0.91 0.99	V V V
R _{thJC}		0.4	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

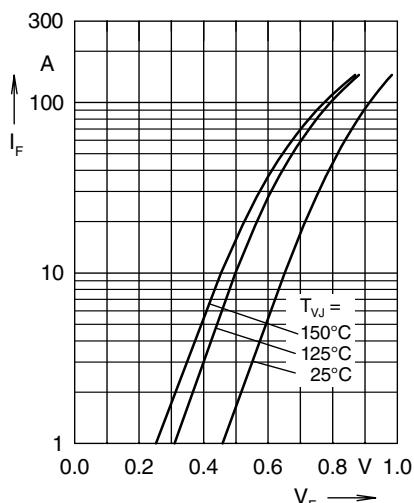


Fig. 1 Maximum forward voltage drop characteristics

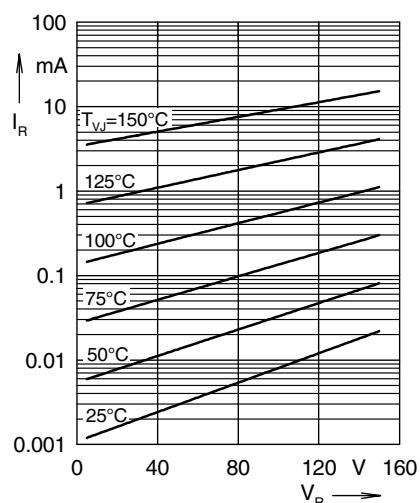


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

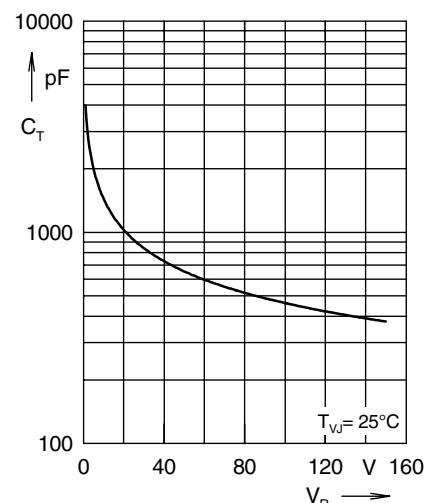


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

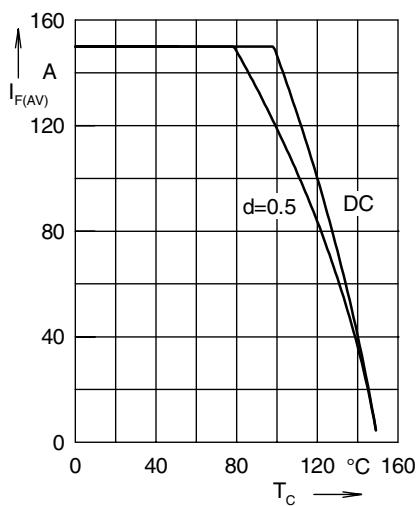


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

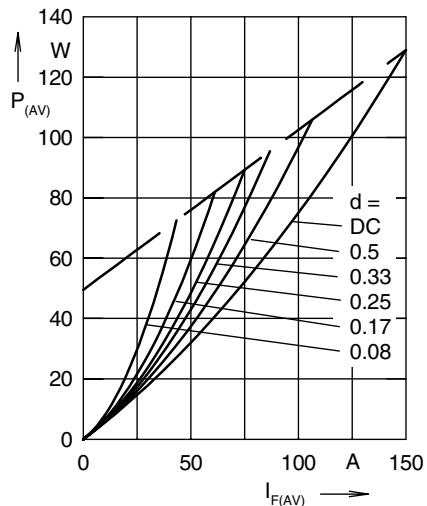


Fig. 5 Forward power loss characteristics

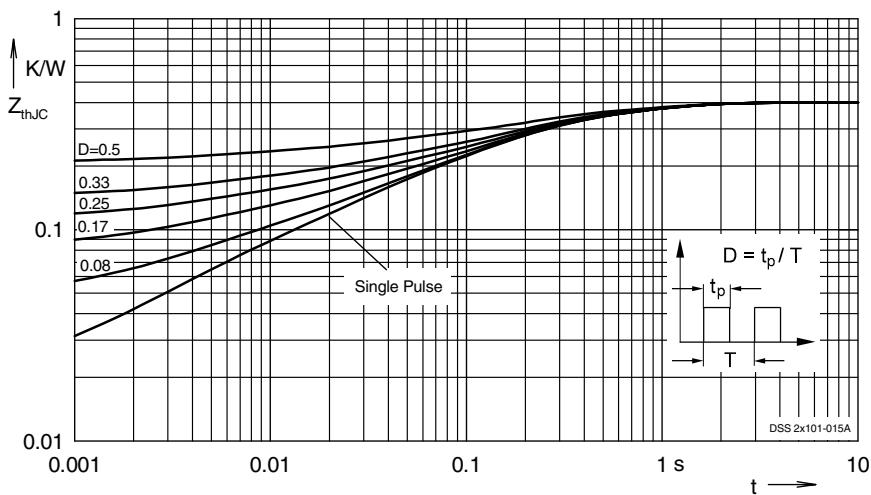


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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