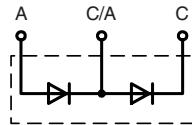


Power Schottky Rectifier

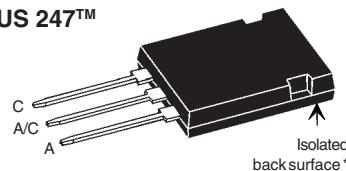
dual diode

I_{FAV} = 2x30 A
V_{RRM} = 100 V
V_F = 0.63 V

V _{RSM} V	V _{RRM} V	Type
100	100	DSSS 30-01AR



ISOPLUS 247™



C = Cathode, A = Anode

Symbol	Conditions	Maximum Ratings	
I _{FRMS}		70	A
I _{FAV}	T _C = 155°C; rectangular, d = 0.5	30	A
I _{FAV}	T _C = 155°C; rectangular, d = 0.5; per device	60	A
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	600	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}		-55...+175	°C
T _{VJM}		175	°C
T _{stg}		-55...+150	°C
P _{tot}	T _C = 25°C	190	W
F _c	mounting force with clip	20...120	N
V _{ISOL}	50/60 Hz, RMS; t = 1 s	3000	V~
Weight	typical	6	g

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values
- Isolated and UL registered E153432

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 V _R = V _{RRM} ; T _{VJ} = 25°C V _R = V _{RRM} ; T _{VJ} = 125°C	2 20	mA mA
V _F	I _F = 30 A; T _{VJ} = 125°C I _F = 30 A; T _{VJ} = 25°C I _F = 60 A; T _{VJ} = 125°C	0.63 0.79 0.78	V V V
R _{thJC} R _{thCH}		0.25	0.8 K/W K/W

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

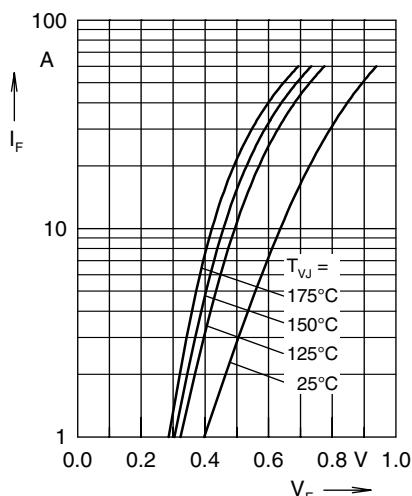


Fig. 1 Max. forward voltage drop characteristics

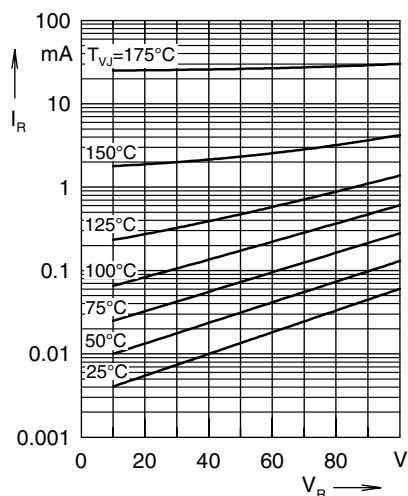


Fig. 2 Typ. reverse current I_R versus reverse voltage

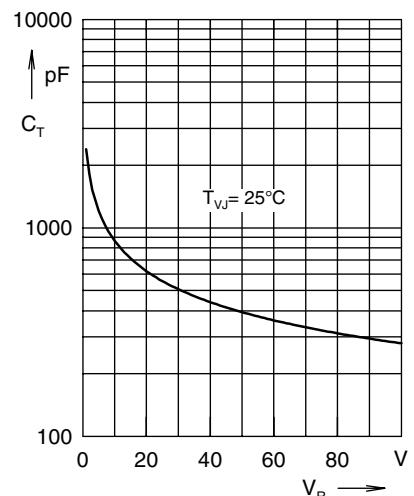


Fig. 3 Typ. junction capacitance C_T vs. reverse voltage V_R

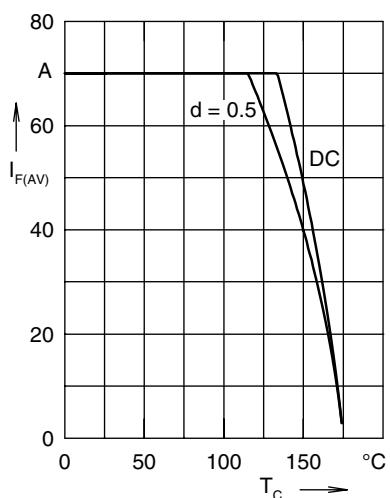


Fig. 4 Avg. forward current $I_{F(AV)}$ vs. case temperature T_c

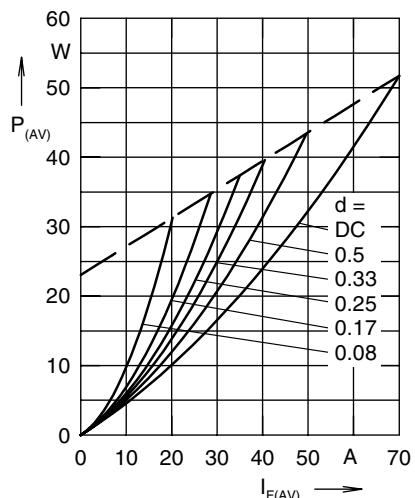
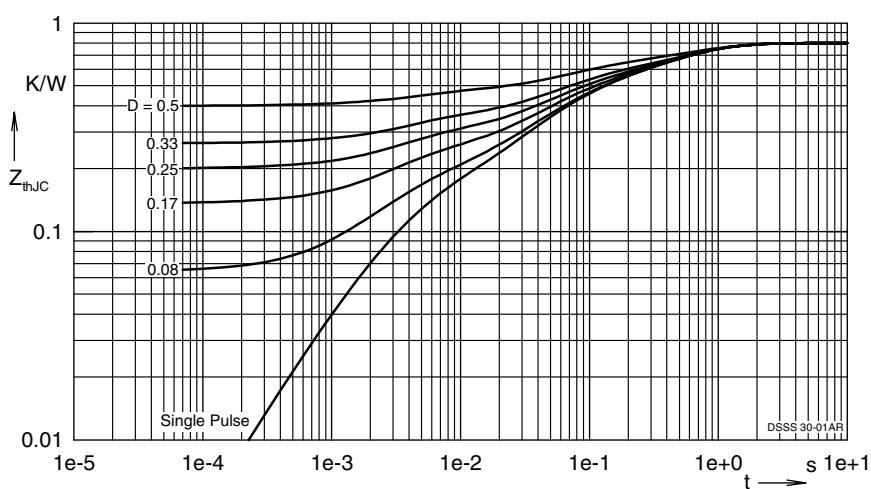


Fig. 5 Forward power loss characteristics



Note: All curves are per diode

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

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