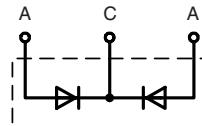


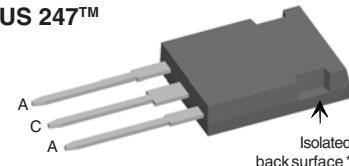
Power Schottky Rectifier with common cathode

I_{FAV} = 2x40 A
V_{RRM} = 60 V
V_F = 0.51 V

V _{RSM}	V _{RRM}	Type
V	V	
60	60	DSSK 80-006BR



ISOPLUS 247™



C = Cathode, A = Anode

Symbol	Conditions	Maximum Ratings		
I _{FRMS}		70	A	
I _{FAV}	T _C = 120°C; rectangular, d = 0.5	40	A	
I _{FAV}	T _C = 120°C; rectangular, d = 0.5; per device	80	A	
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	600	A	
E _{AS}	I _{AS} = 20 A; L = 100 µH; T _{VJ} = 25°C; non repetitive	20	mJ	
I _{AR}	V _A = 1.5·V _{RRM} typ.; f = 10 kHz; repetitive	2	A	
(dV/dt) _{cr}		1000	V/µs	
T _{VJ}		-55...+150	°C	
T _{VJM}		150	°C	
T _{stg}		-55...+150	°C	
P _{tot}	T _C = 25°C	155	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	

Symbol	Conditions	Characteristic Values		
		typ.	max.	
I _R	① V _R = V _{RRM} ; T _{VJ} = 25°C V _R = V _{RRM} ; T _{VJ} = 100°C	20	mA	
		200	mA	
V _F	I _F = 40 A; T _{VJ} = 125°C I _F = 40 A; T _{VJ} = 25°C I _F = 80 A; T _{VJ} = 125°C	0.51 0.55 0.74	V	
R _{thJC}		0.8	K/W	
R _{thCH}		0.25	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
- 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

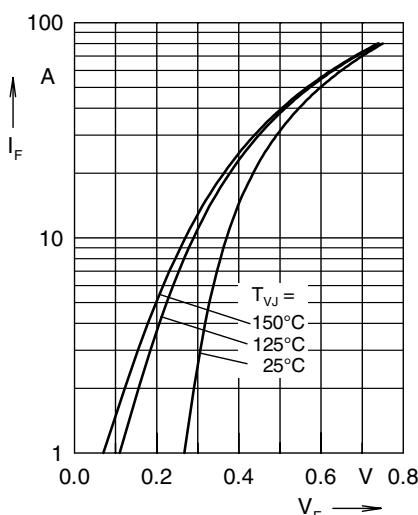


Fig. 1 Maximum forward voltage drop characteristics

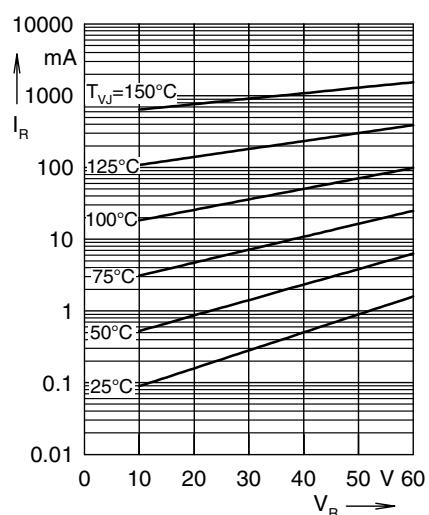


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

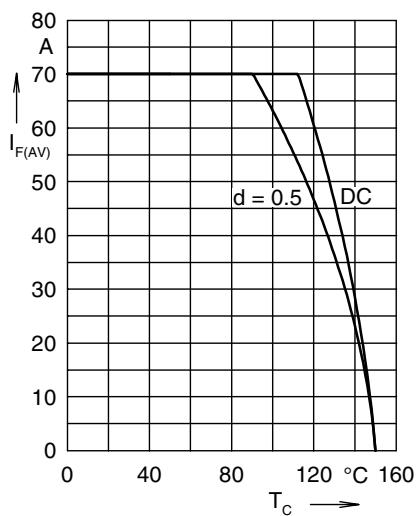
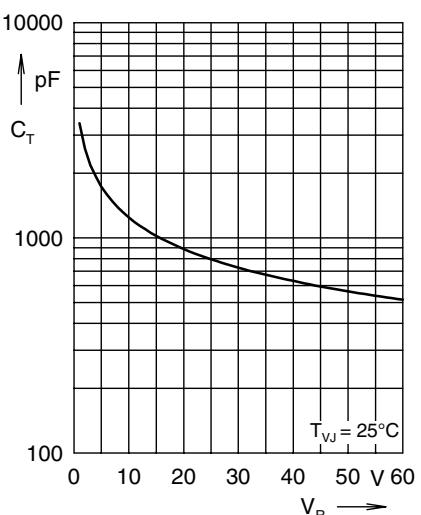


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

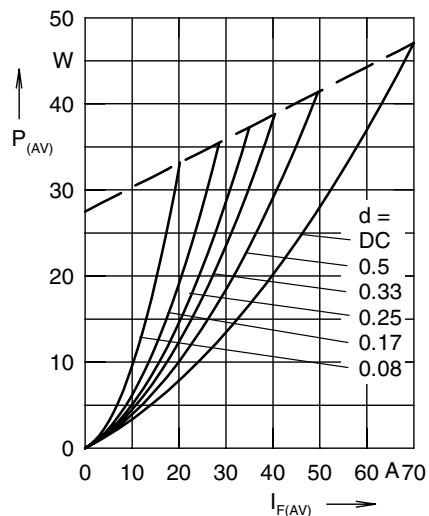


Fig. 5 Forward power loss characteristics

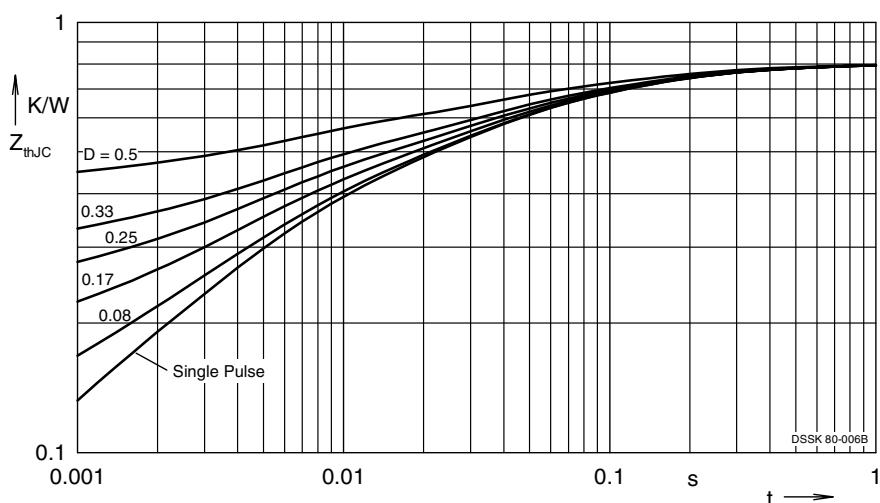


Fig. 6 Transient thermal impedance junction to case at various duty cycles

IXYS reserves the right to change limits, test conditions and dimensions.

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