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IXYS Corporation
DSSK80-006B

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EIS electronic components
Distributor of IXYS Corporation: Excellent Integrated System Limited
Datasheet of DSSK80-006B - DIODE ARRAY SCHOTTKY 60V TO247AD
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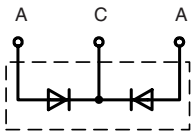
IXYS

DSSK 80-006B

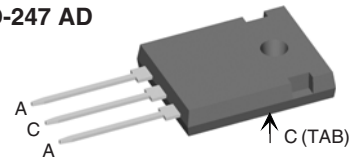
Power Schottky Rectifier
with common cathode

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

V_{RSM} V	V_{RRM} V	Type
60	60	DSSK 80-006B



TO-247 AD



A = Anode, C = Cathode , TAB = Cathode

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
M_d	mounting torque	0.8...1.2	Nm
Weight	typical	6	g

Features

- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values
- Epoxy meets UL 94V-0

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		20	mA
	T_{VJ} = 100°C		200	mA
V_F	I_F = 40 A; T_{VJ} = 125°C		0.51	V
	I_F = 40 A; T_{VJ} = 25°C		0.55	V
	I_F = 80 A; T_{VJ} = 125°C		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.

IXYS reserves the right to change limits, Conditions and dimensions.

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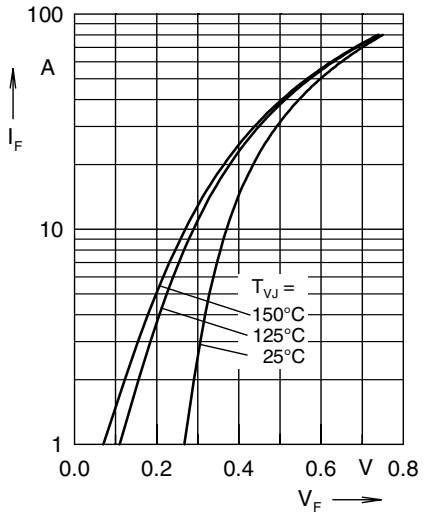

Fig. 1 Maximum forward voltage drop characteristics

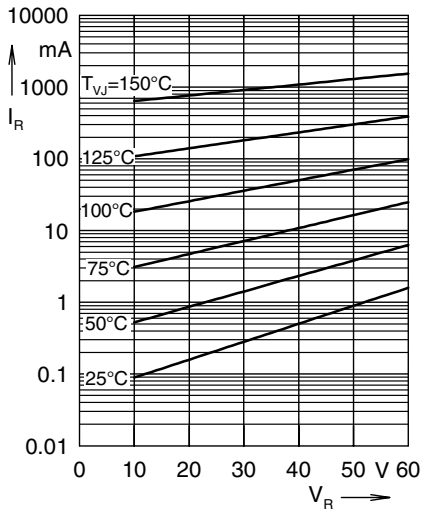

Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

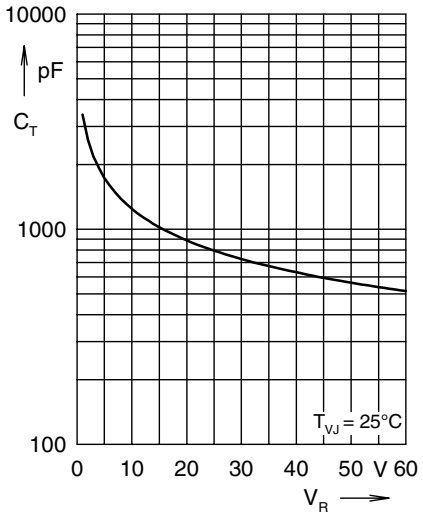

Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

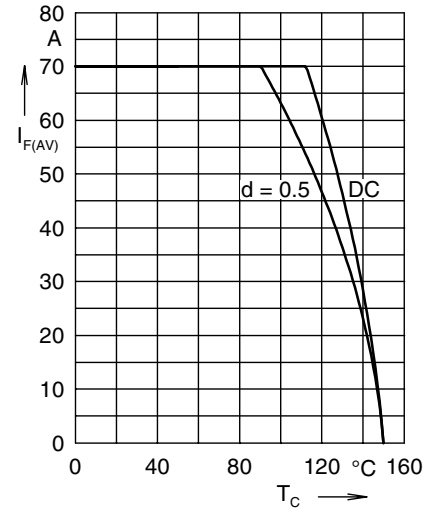

Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_C

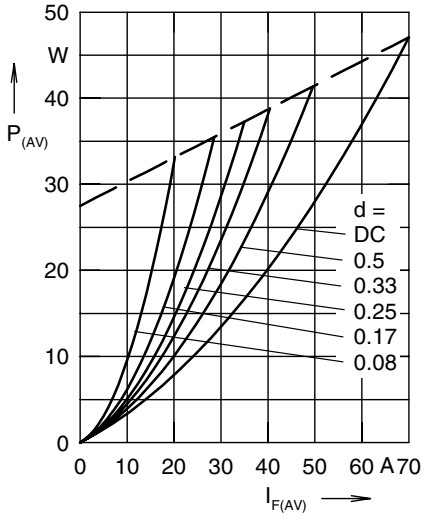

Fig. 5 Forward power loss characteristics

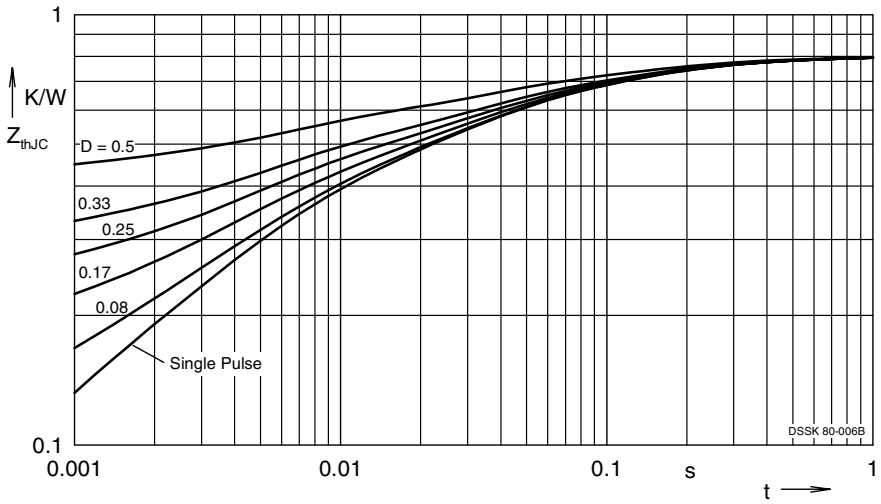

Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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