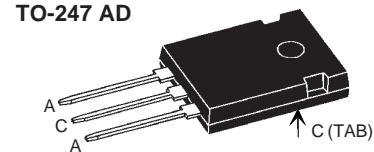
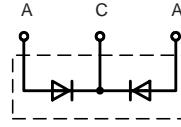


Power Schottky Rectifier with common cathode

$I_{FAV} = 2 \times 30 \text{ A}$
 $V_{RRM} = 45 \text{ V}$
 $V_F = 0.44 \text{ V}$

V_{RSM}	V_{RRM}	Type
V	V	
45	45	DSSK 60-0045B



A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		70	A
I_{FAV}	$T_C = 120^\circ\text{C}$; rectangular, $d = 0.5$	30	A
I_{FAV}	$T_C = 120^\circ\text{C}$; rectangular, $d = 0.5$; per device	60	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	650	A
E_{AS}	$I_{AS} = 18 \text{ A}$; $L = 180 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	46	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f=10 \text{ kHz}$; repetitive	1.8	A
$(dv/dt)_{cr}$		1000	$\text{V}/\mu\text{s}$
T_{VJ}		-55...+150	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-55...+150	$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	115	W
M_d	mounting torque	0.8...1.2	Nm
Weight	typical	6	g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R	① $T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{VJ} = 100^\circ\text{C}$ $V_R = V_{RRM}$	20 200	mA mA
V_F	$I_F = 30 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$ $I_F = 30 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $I_F = 60 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.44 0.50 0.68	V V V
R_{thJC}		0.25	1.1 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

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

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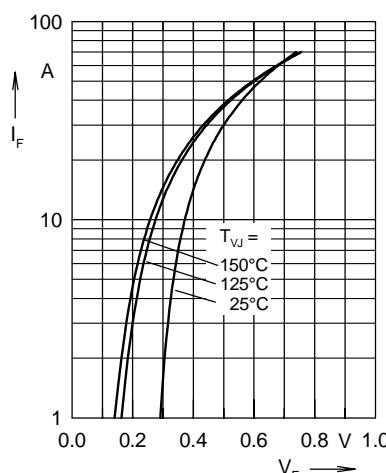


Fig. 1 Maximum forward voltage drop characteristics

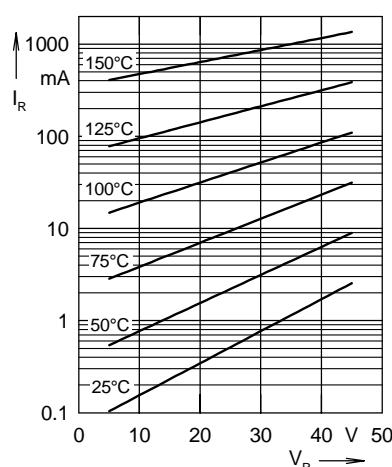


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

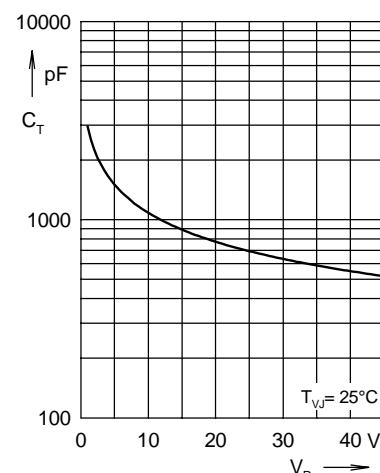


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

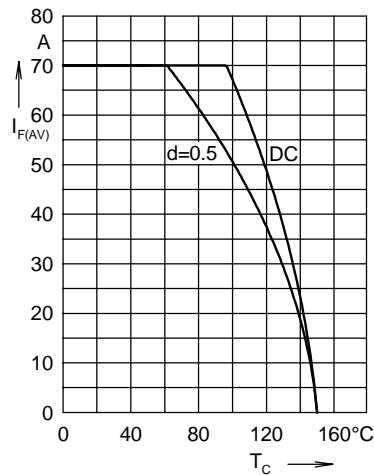


Fig. 4 Average forward current $I_{F(\text{AV})}$ versus case temperature T_C

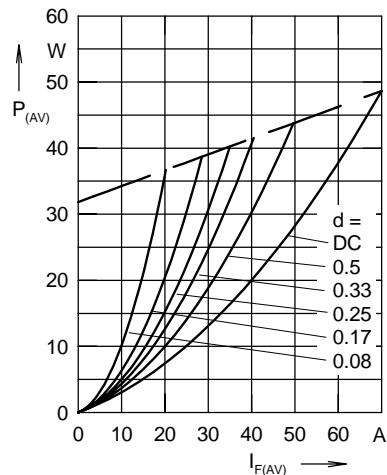


Fig. 5 Forward power loss characteristics

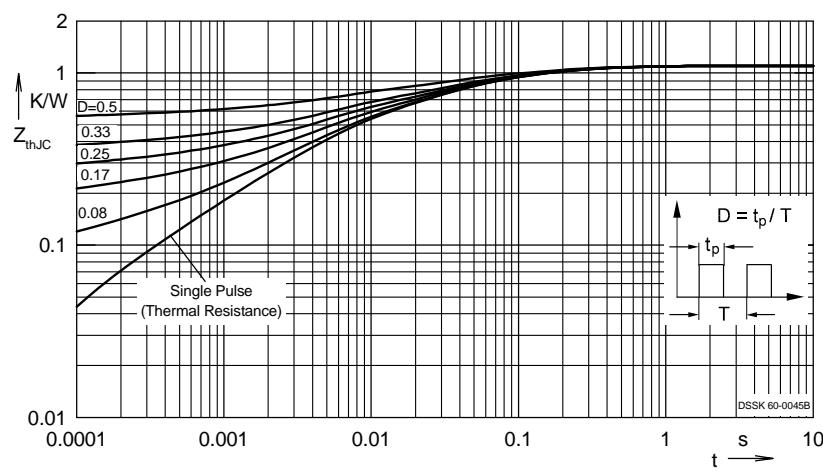


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode