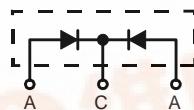


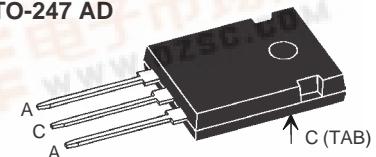
Power Schottky Rectifier with common cathode

V_{RSM}	V_{RRM}	Type
V	V	
8	8	DSSK 80-0008D

$$\begin{aligned}I_{FAV} &= 2 \times 40 \text{ A} \\V_{RRM} &= 8 \text{ V} \\V_F &= 0.23 \text{ V}\end{aligned}$$



TO-247 AD



A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings		
I_{FRMS}		70	A	
I_{FAV}	$T_c = 135^\circ\text{C}$; rectangular, $d = 0.5$	40	A	
I_{FAV}	$T_c = 135^\circ\text{C}$; rectangular, $d = 0.5$; per device	80	A	
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	600	A	
E_{AS}	$I_{AS} = \text{tbd}$ A; $L = 180 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	tbd	mJ	
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10 \text{ kHz}$; repetitive	tbd	A	
$(dv/dt)_{cr}$		tbd	$\text{V}/\mu\text{s}$	
T_{VJ}		-55...+150	$^\circ\text{C}$	
T_{VJM}		150	$^\circ\text{C}$	
T_{stg}		-55...+150	$^\circ\text{C}$	
P_{tot}	$T_c = 25^\circ\text{C}$	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 IXYS Databook 2001

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R	① $T_{VJ} = 25^\circ\text{C}$; $V_R = V_{RRM}$ $T_{VJ} = 100^\circ\text{C}$; $V_R = V_{RRM}$	200 1500	mA mA
V_F	$I_F = 40 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$ $I_F = 40 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $I_F = 80 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.23 0.34 0.35	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

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