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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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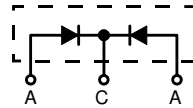
# Power Schottky Rectifier with common cathode

$$I_{FAV} = 2 \times 35 \text{ A}$$

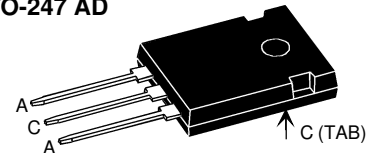
$$V_{RRM} = 80 \text{ V}$$

$$V_F = 0.66 \text{ V}$$

$V_{RSM}$	$V_{RRM}$	Type
V	V	
80	80	DSSK 70-008A



TO-247 AD



A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
$I_{FRMS}$		70	A
$I_{FAV}$	$T_C = 150^\circ\text{C}$ ; rectangular, $d = 0.5$	35	A
$I_{FAV}$	$T_C = 150^\circ\text{C}$ ; rectangular, $d = 0.5$ ; per device	70	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	V/ $\mu\text{s}$
$T_{VJ}$		-55...+175	$^\circ\text{C}$
$T_{VJM}$		175	$^\circ\text{C}$
$T_{stg}$		-55...+150	$^\circ\text{C}$
$P_{tot}$	$T_C = 25^\circ\text{C}$	190	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

Symbol	Conditions	Characteristic Values	
		typ.	max.
$I_R$ ①	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$		4 mA
	$T_{VJ} = 125^\circ\text{C}$ $V_R = V_{RRM}$		10 mA
$V_F$	$I_F = 35 \text{ A}$ ; $T_{VJ} = 125^\circ\text{C}$		0.66 V
	$I_F = 35 \text{ A}$ ; $T_{VJ} = 25^\circ\text{C}$		0.77 V
	$I_F = 70 \text{ A}$ ; $T_{VJ} = 125^\circ\text{C}$		0.79 V
$R_{thJC}$		0.25	0.8 K/W
$R_{thCH}$			K/W

Dimensions see outlines.pdf

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.