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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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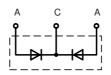


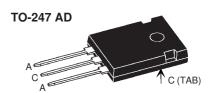
Power Schottky Rectifier with common cathode

Preliminary Data

V _{RSM}	V _{RRM}	Туре
V	V	
15	15	DSSK 70-0015B

I_{FAV}	= 2x35 A
V_{RRM}	= 15 V
V_{F}	= 0.33 V





A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions Maximum R		Ratings
I _{FRMS} I _{FAV}	T_{c} = 130°C; rectangular, d = 0.5 T_{c} = 130°C; rectangular, d = 0.5; per device	70 35 70	A A A
I _{FSM}	$T_{VJ} = 45$ °C; $t_p = 10$ ms (50 Hz), sine	650	Α
E _{AS}	$I_{AS} = \text{tbd A}$; L = 180 μH ; $T_{VJ} = 25^{\circ}\text{C}$; non repetitive	e tbd	mJ
I _{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; f=10 kHz; repetitive	tbd	Α
(dv/dt) _{cr}		tbd	V/µs
T _{VJ} T _{VJM} T _{stg}		5+150 150 5+150	O° O° O°
P _{tot}	$T_{C} = 25^{\circ}C$	115	W
M _d	mounting torque	0.81.2	Nm
Weight	typical	6	g

Symbol	ymbol Conditions Chara		cteristic Values	
		typ.	max.	
I _R ①	$\begin{array}{l} T_{\text{VJ}} = 25^{\circ}\text{C} V_{\text{R}} = V_{\text{RRM}} \\ T_{\text{VJ}} = 100^{\circ}\text{C} V_{\text{R}} = V_{\text{RRM}} \end{array}$		20 350	mA mA
V _F	$I_F = 35 \text{ A};$ $T_{VJ} = 125^{\circ}\text{C}$ $I_F = 35 \text{ A};$ $T_{VJ} = 25^{\circ}\text{C}$ $I_F = 70 \text{ A};$ $T_{VJ} = 125^{\circ}\text{C}$		0.33 0.45 0.45	V V V
R_{thJC} R_{thCH}		0.25	1.1	K/W K/W

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

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.



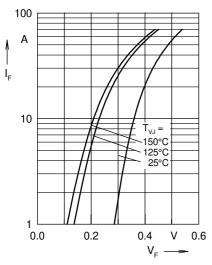


Fig. 1 Maximum forward voltage drop characteristics

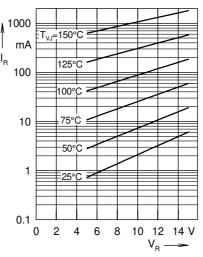


Fig. 2 Typ. value of reverse current $\rm I_{\rm R}$ versus reverse voltage $\rm V_{\rm R}$

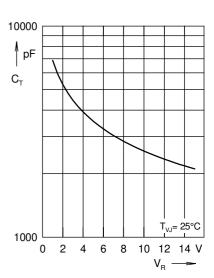


Fig. 3 Typ. junction capacitance $C_{\scriptscriptstyle T}$ versus reverse voltage $V_{\scriptscriptstyle R}$

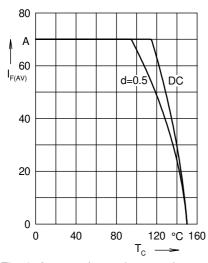


Fig. 4 Average forward current $I_{F(AV)}$ versus case temperature T_{C}

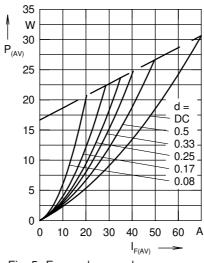


Fig. 5 Forward power loss characteristics

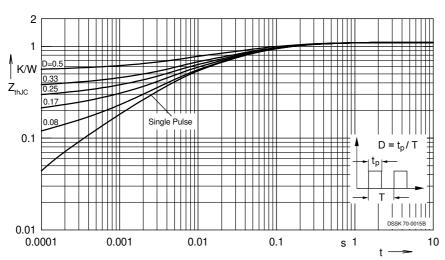


Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode