Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!

Contact us

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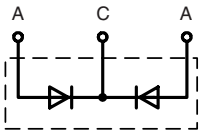
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

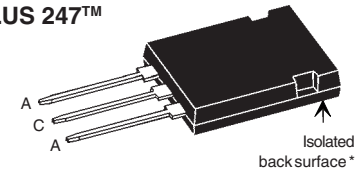
Power Schottky Rectifier
with common cathode

I_{FAV} = 2x35 A
V_{RRM} = 80 V
V_F = 0.64 V

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



ISOPLUS 247™



C = Cathode, A = Anode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		70	A
I_{FAV}	T_C = 150°C; rectangular, d = 0.5	35	A
I_{FAV}	T_C = 150°C; rectangular, d = 0.5; per device	70	A
I_{FSM}	T_{VJ} = 45°C; t_p = 10 ms (50 Hz), sine	600	A
E_{AS}	I_{AS} = 35 A; L = 100 µH; T_{VJ} = 25°C; non repetitive	61	mJ
I_{AR}	V_A =1.5 • V_{RRM} typ.; f=10 kHz; repetitive	3.5	A
$(dv/dt)_{cr}$		tbd	V/µs
T_{VJ}		-55...+175	°C
T_{VJM}		175	°C
T_{stg}		-55...+150	°C
P_{tot}	T_C = 25°C	190	W
F_C	mounting force with clip	20...120	N
V_{ISOL}	50/60 Hz, RMS; t = 1 s	3000	V~
Weight	typical	6	g

Symbol	Conditions	Characteristic Values typ.	max.	
I_R ①	$V_R = V_{RRM}$; T_{VJ} = 25°C		4	mA
	$V_R = V_{RRM}$; T_{VJ} = 125°C		10	mA
V_F	I_F = 35 A; T_{VJ} = 125°C		0.64	V
	I_F = 35 A; T_{VJ} = 25°C		0.76	V
	I_F = 70 A; T_{VJ} = 125°C		0.80	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

Features
- International standard package
- Very low V_F
- Extremely low switching losses
- Low I_{RM}-values
- Isolated and UL registered E153432

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

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

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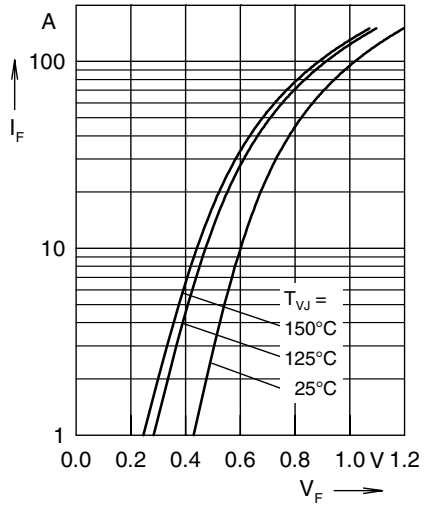

Fig. 1 Max. forward voltage drop characteristics

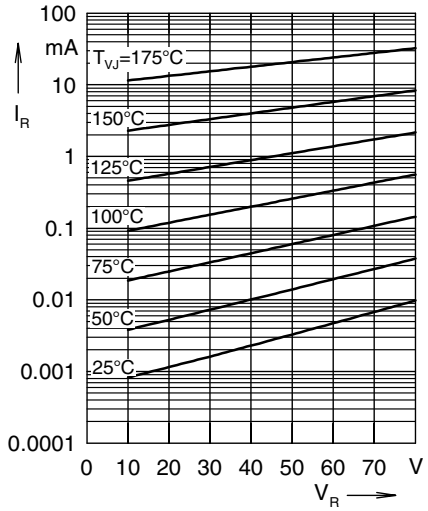

Fig. 2 Typ. reverse current I_R versus reverse voltage

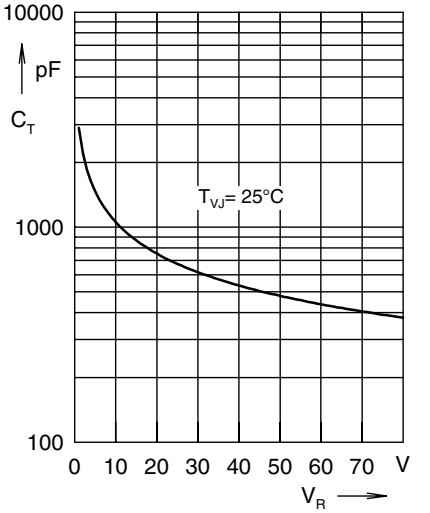

Fig. 3 Typ. junction capacitance C_T vs. reverse voltage V_R

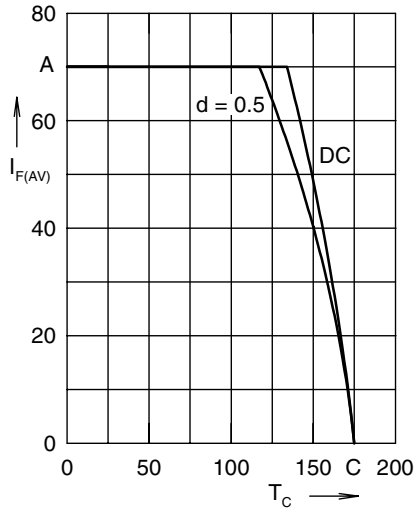

Fig. 4 Avg. forward current $I_{F(AV)}$ vs. case temperature T_C

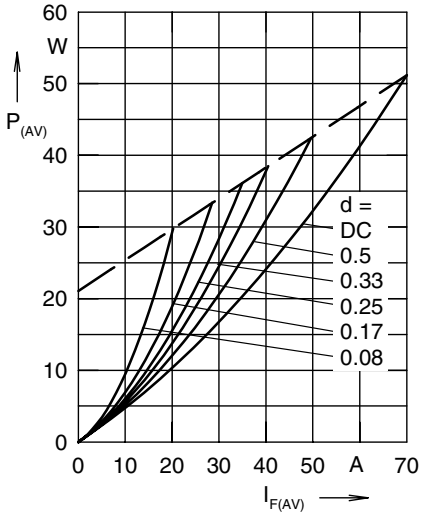

Fig. 5 Forward power loss characteristics

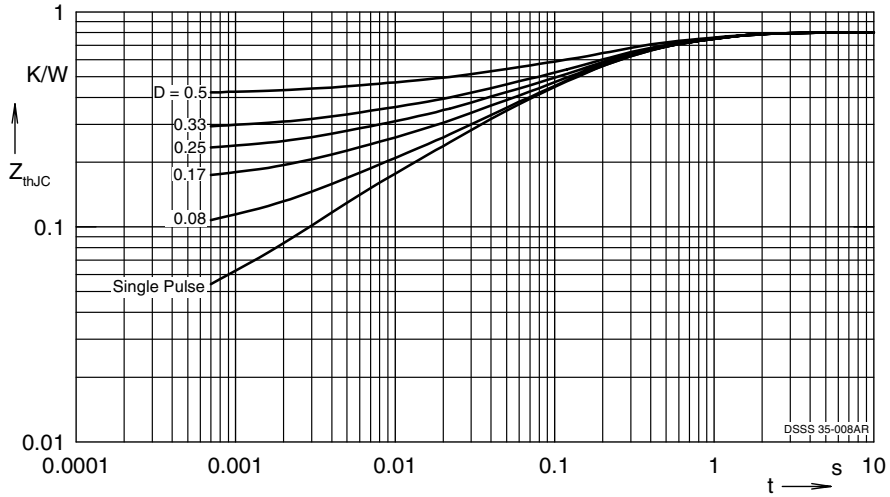

Fig. 6 Transient thermal impedance junction to case at various duty cycles

Note: All curves are per diode

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