

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!



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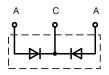




Power Schottky Rectifier with common cathode

FAV	=	2x40 A
\mathbf{V}_{RRM}	=	60 V
V_{F}	=	0.51 V

V _{RSM}	V _{RRM}	Туре
60	60	DSSK 80-006B





A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I _{FRMS}		70	A
I _{FAV}	$T_c = 120$ °C; rectangular, d = 0.5	40	Α
I _{FAV}	$T_C = 120$ °C; rectangular, d = 0.5; per device	80	Α
I _{FSM}	$T_{VJ} = 45^{\circ}C$; $t_p = 10 \text{ ms } (50 \text{ Hz})$, sine	600	А
E _{AS}	$I_{AS} = 20 \text{ A}$; L = 100 μH ; $T_{VJ} = 25^{\circ}\text{C}$; non repetitive	20	mJ
I _{AR}	V _A = 1.5·V _{RRM} typ.; f = 10 kHz; repetitive	2	А
(dv/dt) _{cr}		1000	V/µs
T _{v,i}		-55+150	°C
T _{VJM}		150	°C
T _{stg}		-55+150	°C
P _{tot}	T _C = 25°C	155	W
M _d	mounting torque	0.81.2	Nm
Weight	typical	6	9

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

Symbol	nbol Conditions Charatyp.		acteristic Values max.	
I _R ①	$V_R = V_{RRM};$ $T_{VJ} = 25^{\circ}C$ $T_{VJ} = 100^{\circ}C$		20 200	mA mA
V _F	$I_F = 40 \text{ A};$ $T_{VJ} = 125^{\circ}\text{C}$ $I_F = 40 \text{ A};$ $T_{VJ} = 25^{\circ}\text{C}$ $I_F = 80 \text{ A};$ $T_{VJ} = 125^{\circ}\text{C}$		0.51 0.55 0.74	V V V
R _{thJC}		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.



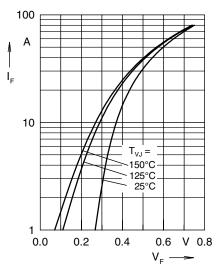


Fig. 1 Maximum forward voltage drop characteristics

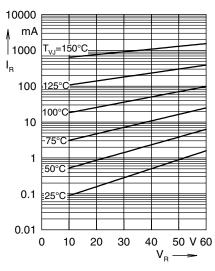


Fig. 2 Typ. value of reverse current I_R versus reverse voltage V_R

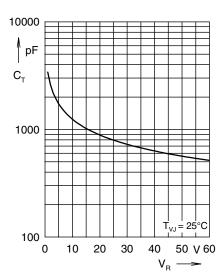


Fig. 3 Typ. junction capacitance C_T versus reverse voltage V_R

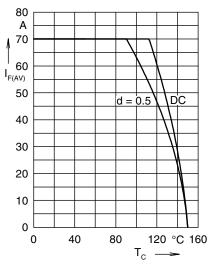


Fig. 4 Average forward current $I_{\text{F(AV)}}$ versus case temperature T_{C}

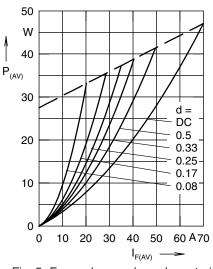


Fig. 5 Forward power loss characteristics

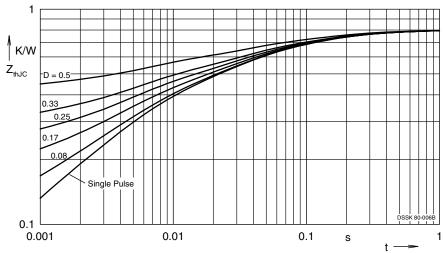


Fig. 6 Transient thermal impedance junction to case at various duty cycles IXYS reserves the right to change limits, Conditions and dimensions.

Note: All curves are per diode