imall

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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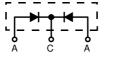


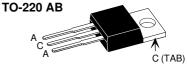


Power Schottky Rectifier with common cathode

 $I_{FAV} = 2x10 A$ $V_{RRM} = 45 V$ $V_{F} = 0.45 V$

V _{RSM}	V _{RRM}	Туре
V	V	
45	45	DSSK 20-0045B





A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I _{FRMS} I _{FAV}	$T_c = 135^{\circ}C$; rectangular, d = 0.5 $T_c = 135^{\circ}C$; rectangular, d = 0.5; per device	35 10 20	A A A
I _{fav} I _{fsm}	$T_{c} = 45^{\circ}$ C; $t_{p} = 10$ ms (50 Hz), sine	160	A A
E _{AS}	I_{AS} = 13 A; L = 180 μ H; T _{VJ} = 25°C; non repetitive	e 24	mJ
I _{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; f=10 kHz; repetitive	1.3	А
(dv/dt) _{cr}		1000	V/µs
T _{vJ} T _{vJM} T _{stg}		55+150 150 55+150	O° O° O°
P _{tot}	$T_c = 25^{\circ}C$	75	W
M _d	mounting torque	0.40.6	Nm
Weight	typical	2	g

Symbol	mbol Conditions Cha		racteristic Values	
		typ.	max.	
I _R ①	$ \begin{array}{lll} T_{_{VJ}}=25^{\circ}C & V_{_{\mathrm{R}}}=V_{_{\mathrm{RRM}}}\\ T_{_{VJ}}=100^{\circ}C & V_{_{\mathrm{R}}}=V_{_{\mathrm{RRM}}} \end{array} $		5 50	mA mA
V _F	$ I_F = 10 \text{ A}; T_{VJ} = 125^{\circ}\text{C} \\ I_F = 10 \text{ A}; T_{VJ} = 25^{\circ}\text{C} \\ I_F = 20 \text{ A}; T_{VJ} = 125^{\circ}\text{C} $		0.45 0.51 0.70	V V V
R _{thJC} R _{thCH}		0.5	1.7	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.

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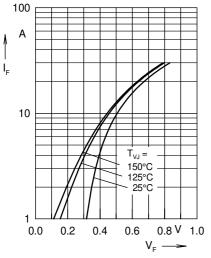
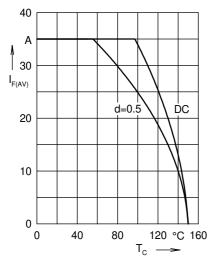
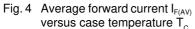
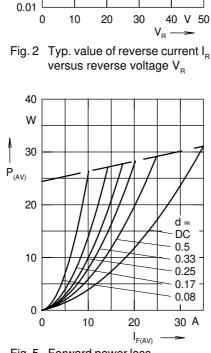


Fig. 1 Maximum forward voltage drop characteristics







1000

mΑ

I 100

10

0.1

_{vJ}=150°C

125°C

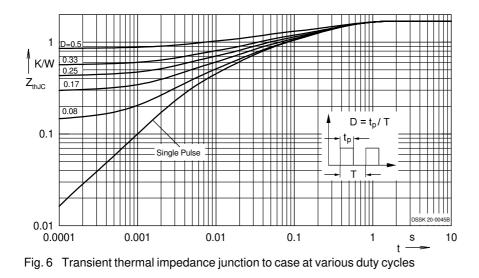
100°C

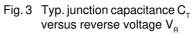
1_75°C

50

25

Fig. 5 Forward power loss characteristics







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