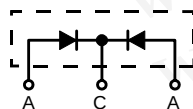


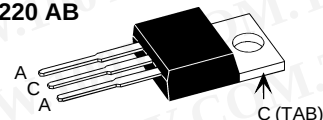
Power Schottky Rectifier with common cathode

$$\begin{aligned} I_{FAV} &= 2 \times 14 \text{ A} \\ V_{RRM} &= 45 \text{ V} \\ V_F &= 0.42 \text{ V} \end{aligned}$$

V_{RSM}	V_{RRM}	Type
V	V	
45	45	DSSK 28-0045B



TO-220 AB



A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 135^\circ\text{C}$; rectangular, $d = 0.5$	14	A
I_{FAV}	$T_C = 135^\circ\text{C}$; rectangular, $d = 0.5$; per device	28	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	320	A
E_{AS}	$I_{AS} = 15 \text{ A}$; $L = 180 \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	32	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10 \text{ kHz}$; repetitive	1.5	A
$(dv/dt)_{cr}$		1000	V/ μs
T_{VJ}		-55...+150	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-55...+150	$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	90	W
M_d	mounting torque	0.4...0.6	Nm
Weight	typical	2	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	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{VJ} = 100^\circ\text{C}$ $V_R = V_{RRM}$	10 100	mA mA
V_F	$I_F = 15 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$ $I_F = 15 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$ $I_F = 30 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$	0.42 0.48 0.62	V V V
R_{thJC} R_{thCH}		1.4 0.5	K/W K/W

Dimensions see outlines.pdf

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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.