

Power Schottky Rectifier

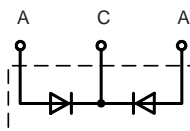
$$I_{FAV} = 2x\ 20\ A$$

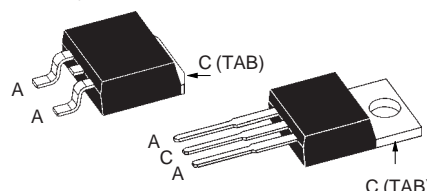
$$V_{RRM} = 25\ V$$

$$V_F = 0.40\ V$$

Preliminary Data

V_{RSM}	V_{RRM}	Type
V	V	
25	25	DSSK 38-0025B
25	25	DSSK 38-0025BS


TO-263 AB
 (...S-Type)

TO-220 AC


A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 130^\circ\text{C}$; rectangular, $d = 0.5$	20	A
I_{FAV}	$T_C = 130^\circ\text{C}$; rectangular, $d = 0.5$; per device	40	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10\ \text{ms}$ (50 Hz), sine	330	A
E_{AS}	$I_{AS} = \text{tbd A}$; $L = 180\ \mu\text{H}$; $T_{VJ} = 25^\circ\text{C}$; non repetitive	tbd	mJ
I_{AR}	$V_A = 1.5 \cdot V_{RRM}$ typ.; $f = 10\ \text{kHz}$; repetitive	tbd	A
$(dv/dt)_{cr}$		tbd	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

Dimensions see Outlines.pdf

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$		20 mA
	$T_{VJ} = 100^\circ\text{C}$ $V_R = V_{RRM}$		80 mA
V_F	$I_F = 20\ \text{A}$; $T_{VJ} = 125^\circ\text{C}$		0.40 V
	$I_F = 20\ \text{A}$; $T_{VJ} = 25^\circ\text{C}$		0.48 V
	$I_F = 40\ \text{A}$; $T_{VJ} = 125^\circ\text{C}$		0.58 V
R_{thJC}			1.4 KW
R_{thCH}	0.5		KW

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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