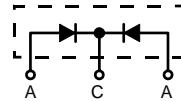


Power Schottky Rectifier with common cathode

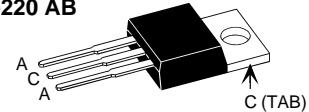
$I_{FAV} = 2 \times 25 \text{ A}$
 $V_{RRM} = 25 \text{ V}$
 $V_F = 0.35 \text{ V}$

Preliminary Data

V_{RSM} V	V_{RRM} V	Type
25	25	DSSK 48-0025B



TO-220 AB



A = Anode, C = Cathode , TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		35	A
I_{FAV}	$T_C = 130^\circ\text{C}$; rectangular, $d = 0.5$	25	A
I_{FAV}	$T_C = 130^\circ\text{C}$; rectangular, $d = 0.5$; per device	50	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t_p = 10 \text{ ms}$ (50 Hz), sine	350	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	$\text{V}/\mu\text{s}$
T_{VJ}		-55...+150	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-55...+150	$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	105	W
M_d	mounting torque	0.4...0.6	Nm
Weight	typical	6	g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R	① $T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{VJ} = 100^\circ\text{C}$ $V_R = V_{RRM}$	20 60	mA mA
V_F	$I_F = 20 \text{ A}; T_{VJ} = 125^\circ\text{C}$ $I_F = 20 \text{ A}; T_{VJ} = 25^\circ\text{C}$ $I_F = 40 \text{ A}; T_{VJ} = 125^\circ\text{C}$	0.35 0.44 0.48	V V V
R_{thJC} R_{thCH}		1.2 0.5	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

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