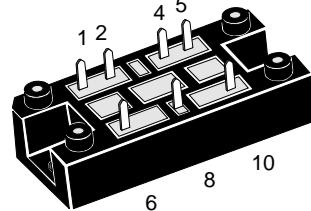
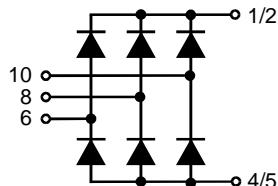


Three Phase Rectifier Bridge

$I_{dAVM} = 25 \text{ A}$
 $V_{RRM} = 800-1800 \text{ V}$

V_{RSM} V	V_{RRM} V	Type
900	800	VUO 22-08NO1
1300	1200	VUO 22-12NO1
1500	1400	VUO 22-14NO1
1700	1600	VUO 22-16NO1
1900	1800	VUO 22-18NO1



Symbol	Test Conditions	Maximum Ratings		
I_{dAV}	$T_K = 90^\circ\text{C}$, module	22	A	
I_{dAV}	$T_A = 45^\circ\text{C}$ ($R_{thKA} = 0.5 \text{ K/W}$), module	25	A	
I_{dAVM}	module	25	A	
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	100 106	A A	
	$T_{VJ} = T_{VJM}$ $V_R = 0$	85 90	A A	
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	50 47	A^2s A^2s	
	$T_{VJ} = T_{VJM}$ $V_R = 0$	36 33	A^2s A^2s	
T_{VJ}		-40...+130	$^\circ\text{C}$	
T_{VJM}		130	$^\circ\text{C}$	
T_{stg}		-40...+125	$^\circ\text{C}$	
V_{ISOL}	50/60 Hz, RMS $I_{ISOL} \leq 1 \text{ mA}$	3000 3600	V~ V~	
M_d	Mounting torque (M5) (10-32UNF)	2 - 2.5 18-22	Nm lb.in.	
Weight	typ.	35	g	

Symbol	Test Conditions	Characteristic Values		
I_R	$V_R = V_{RRM}$	$T_{VJ} = 25^\circ\text{C}$	\leq	0.3 mA
	$V_R = V_{RRM}$	$T_{VJ} = T_{VJM}$	\leq	5 mA
V_F	$I_F = 7 \text{ A}$;	$T_{VJ} = 25^\circ\text{C}$	\leq	1.12 V
V_{T0}	For power-loss calculations only		0.8	V
r_T			40	$\text{m}\Omega$
R_{thJH}	per diode, 120° rect. per module, 120° rect.	3.1 0.516	K/W K/W	
d_s	Creeping distance on surface	12.7	mm	
d_a	Creepage distance in air	9.4	mm	
a	Max. allowable acceleration	50	m/s^2	

Data according to IEC 60747 and refer to a single diode unless otherwise stated.
 IXYS reserves the right to change limits, test conditions and dimensions.

Features

- Package with DCB ceramic base plate
- Isolation voltage 3600 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- Leads suitable for PC board soldering
- UL registered E72873

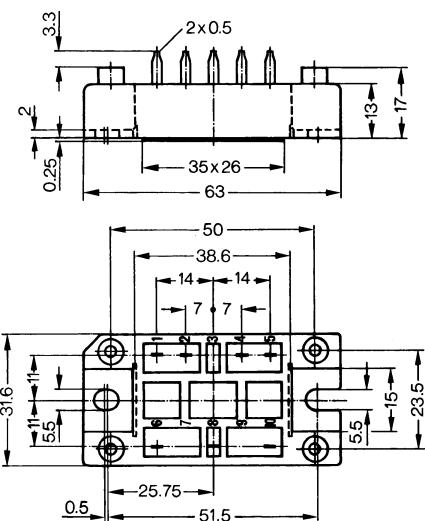
Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")



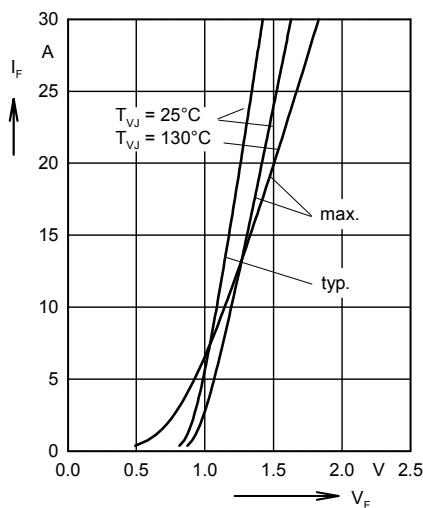


Fig. 1 Forward current versus voltage drop per diode

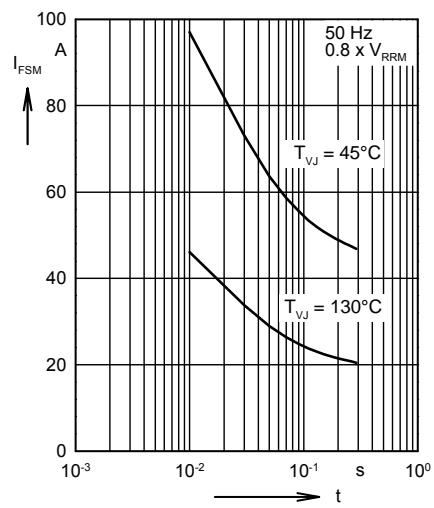


Fig. 2 Surge overload current per diode
I_{FSM}: Crest value. t:duration

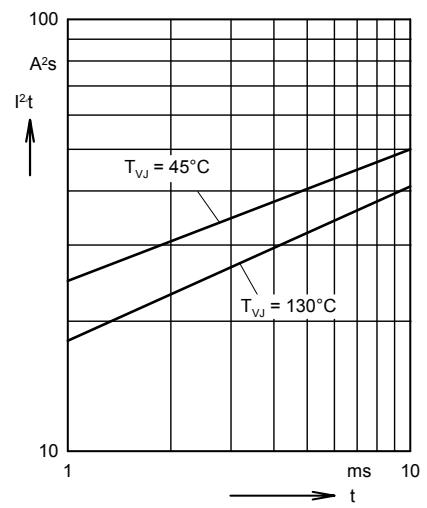


Fig. 3 I²t versus time (1-10 ms) per diode

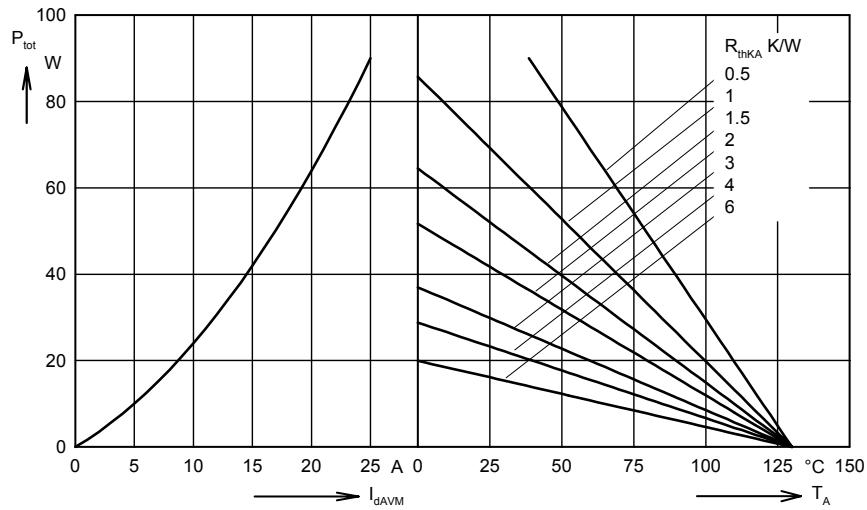


Fig. 4 Power dissipation versus direct output current and ambient temperature

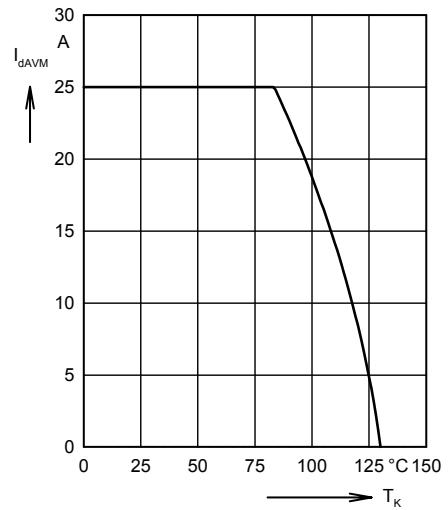


Fig. 5 Maximum forward current at heatsink temperature T_K

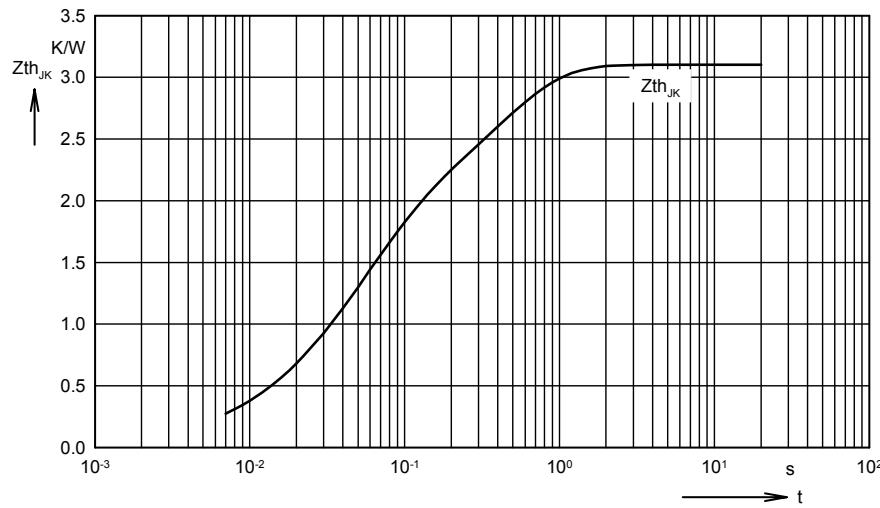


Fig. 6 Transient thermal impedance junction to heatsink per diode

Constants for Z_{thJK} calculation:

i	R _{th} (K/W)	t _i (s)
1	0.015	0.008
2	0.1	0.02
3	1.635	0.05
4	1.35	0.4