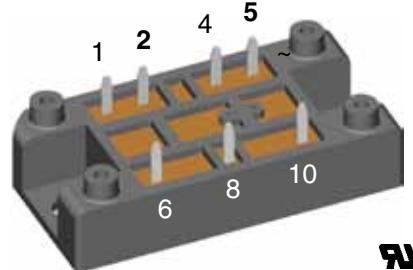
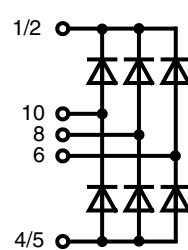


Three Phase Rectifier Bridge

$I_{dAV} = 45 \text{ A}$
 $V_{RRM} = 800-1800 \text{ V}$

$V_{RSM/DSM}$ V	$V_{RRM/DRM}$ V	Type
900	800	VUO 34-08NO1
1300	1200	VUO 34-12NO1
1500	1400	VUO 34-14NO1
1700	1600	VUO 34-16NO1
1900	1800	VUO 34-18NO1



Symbol	Conditions	Maximum Ratings			
I_{dAV}	$T_C = 90^\circ\text{C}$, module	36	A		
I_{dAV}	$T_A = 45^\circ\text{C}$ ($R_{thKA} = 0.5 \text{ K/W}$), module	37	A		
I_{dAVM}		45	A		
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	300	A		
	$t = 10 \text{ ms}$ (50 Hz) $t = 8.3 \text{ ms}$ (60 Hz)	320	A		
	$T_{VJ} = T_{VJM}$; $V_R = 0$	260	A		
	$t = 10 \text{ ms}$ (50 Hz) $t = 8.3 \text{ ms}$ (60 Hz)	280	A		
I^2t	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	450	A^2s		
	$t = 10 \text{ ms}$ (50 Hz) $t = 8.3 \text{ ms}$ (60 Hz)	425	A^2s		
	$T_{VJ} = T_{VJM}$; $V_R = 0$	340	A^2s		
	$t = 10 \text{ ms}$ (50 Hz) $t = 8.3 \text{ ms}$ (60 Hz)	325	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	V \sim		
	$t = 1 \text{ s}$	3600	V \sim		
M_d	Mounting torque (M5) (10-32 UNF)	2 - 2.5 18 - 22	Nm lb.in.		
Weight	Typ.	35	g		

Symbol	Conditions	Characteristic Values			
I_R	$V_R = V_{RRM}$	$T_{VJ} = 25^\circ\text{C}$	0.3	mA	
		$T_{VJ} = T_{VJM}$	5.0	mA	
V_F	$I_F = 55 \text{ A}$	$T_{VJ} = 25^\circ\text{C}$	1.51	V	
V_{TO}	For power-loss calculations only		0.8	V	
r_t			15	$\text{m}\Omega$	
R_{thJH}	per diode, per module,	120° rect. 120° rect.	2.5 0.42	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.

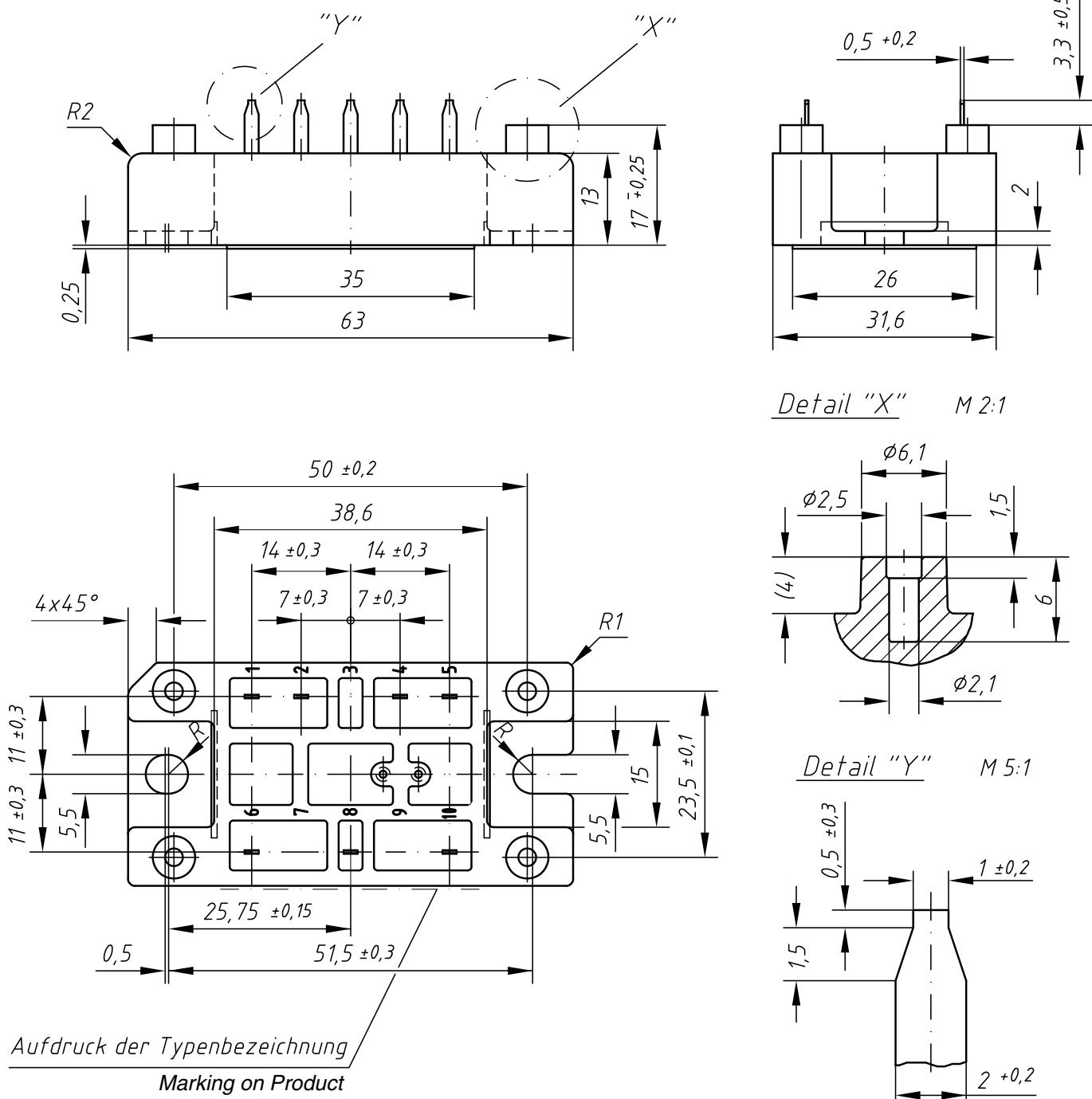
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Dimensions in mm (1 mm = 0.0394")



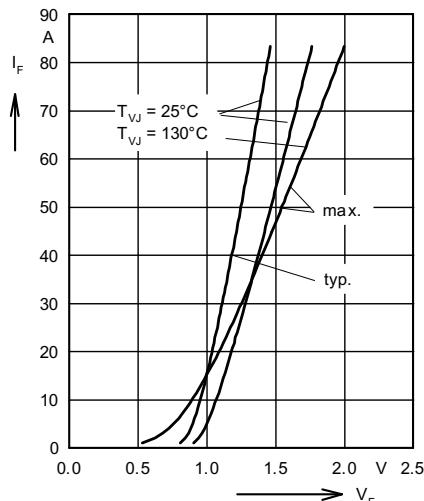


Fig. 1 Forward current versus voltage drop per diode

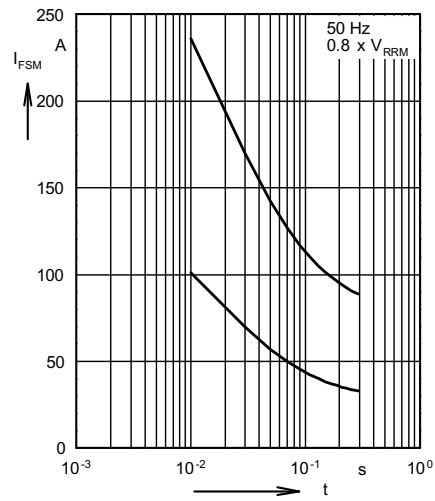


Fig. 2 Surge overload current per diode
 I_{FSM} : Crest value. t : duration

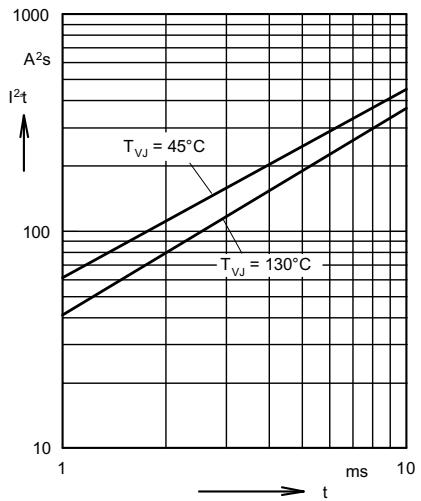


Fig. 3 I^2t versus time
(1-10 ms) per diode

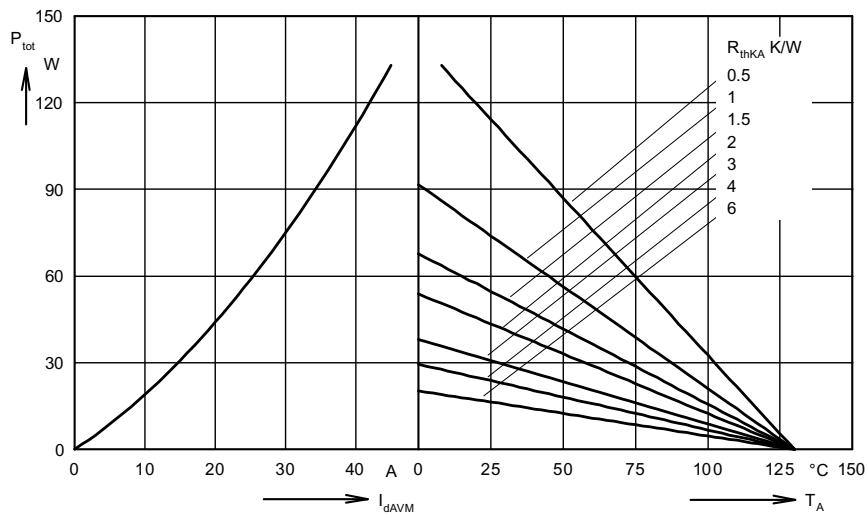


Fig. 4 Power dissipation versus direct output current and ambient temperature

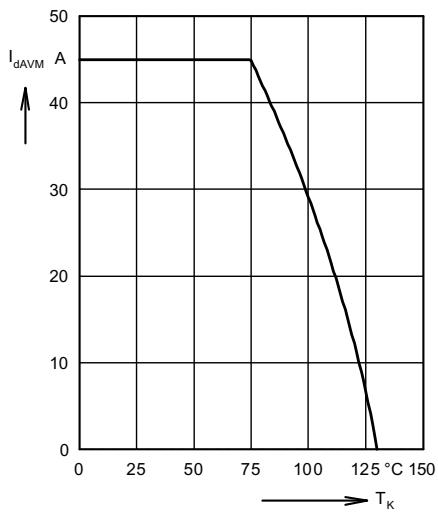


Fig. 5 Maximum forward current at case temperature

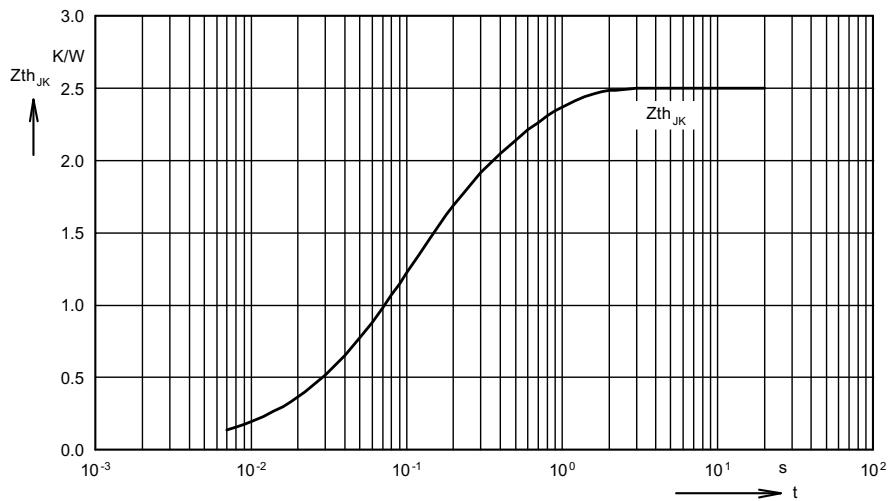


Fig. 6 Transient thermal impedance per diode

Constants for Z_{thJC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.005	0.008
2	0.3	0.05
3	1.245	0.1
4	0.95	0.5