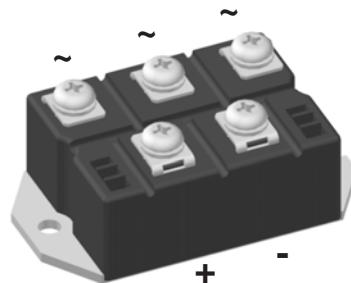
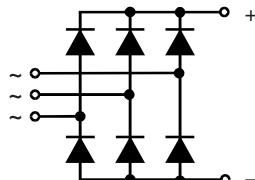


Three Phase Rectifier Bridge

I_{dAV} = 248 A
V_{RRM} = 800-1800 V

V _{RSM}	V _{RRM}	Type
V	V	
800	800	VUO 190-08NO7
1200	1200	VUO 190-12NO7
1400	1400	VUO 190-14NO7
1600	1600	VUO 190-16NO7
1800	1800	VUO 190-18NO7*

* delivery time on request



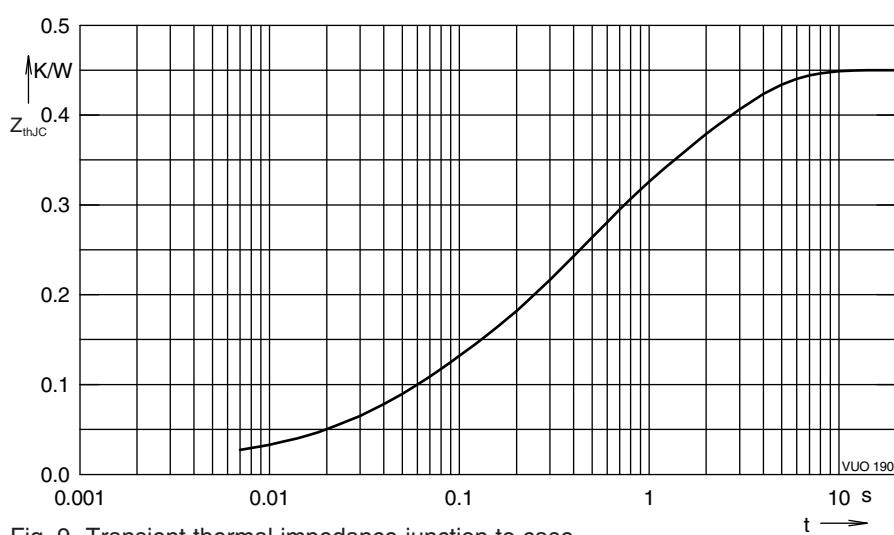
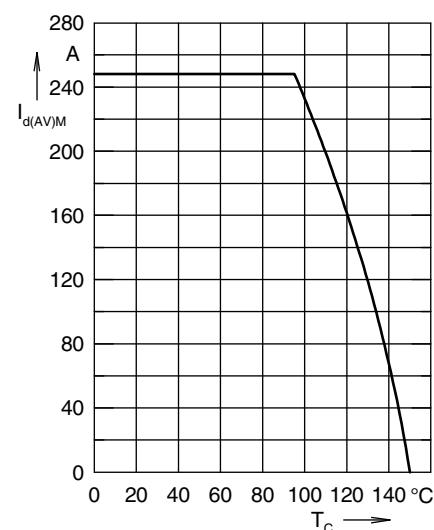
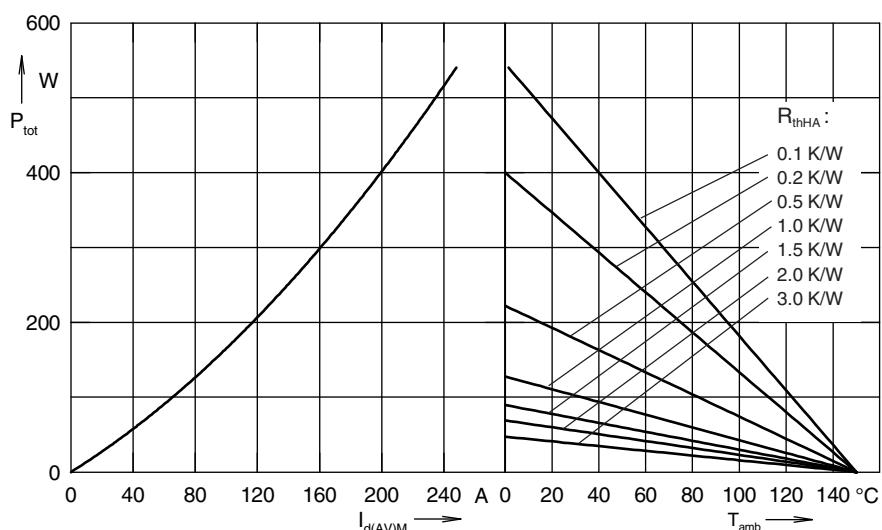
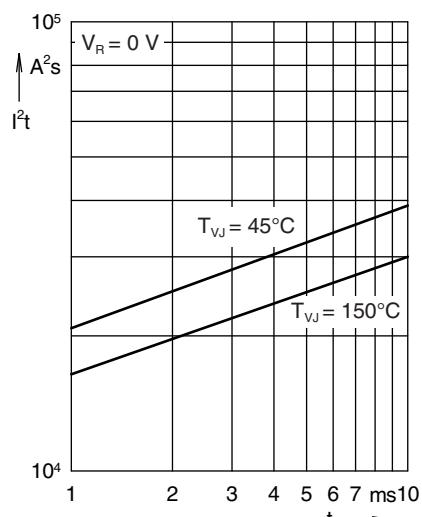
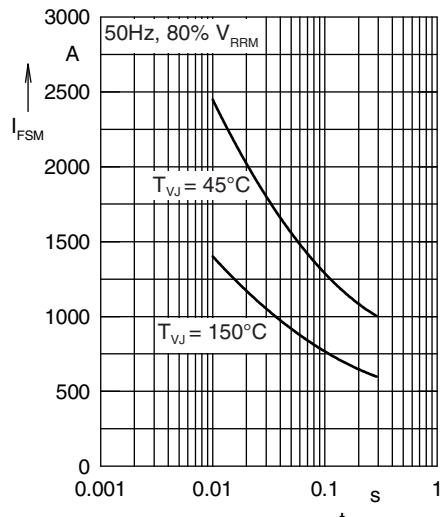
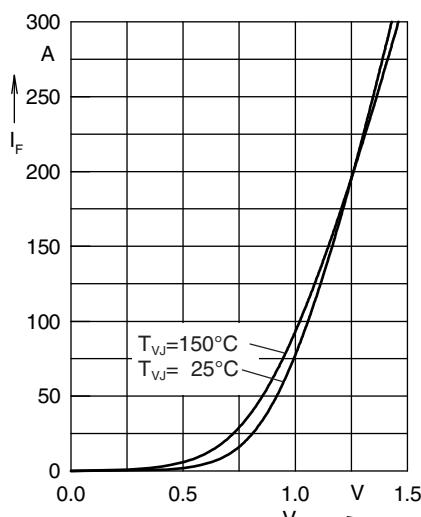
Symbol	Test Conditions		Maximum Ratings		
I _{dAV}	T _C = 90°C, module		248	A	
I _{dAV}	T _A = 35°C (R _{thCA} = 0.2 K/W), module		165	A	
I _{FSM}	T _{VJ} = 45°C; V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2800	A	
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2500	A	
I ² t	T _{VJ} = 45°C V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	39 200	A ² s	
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	45 000	A ² s	
T _{VJ}			-40...+150	°C	
T _{VJM}			150	°C	
T _{stg}			-40...+125	°C	
V _{ISOL}	50/60 Hz, RMS I _{ISOL} ≤ 1 mA	t = 1 min t = 1 s	2500 3000	V~ V~	
M _d	Mounting torque (M6) Terminal connection torque (M6)		5 ± 15 % 5 ± 15 %	Nm Nm	
Weight	typ.		270	g	

Symbol	Test Conditions		Characteristic Values		
I _R	V _R = V _{RRM} ; V _R = V _{RRM} ;	T _{VJ} = 25°C T _{VJ} = T _{VJM}	≤ 0.3 ≤ 5	mA	
V _F	I _F = 300 A;	T _{VJ} = 25°C	≤ 1.43	V	
V _{T0}	For power-loss calculations only		0.8	V	
r _T			2.2	mΩ	
R _{thJC}	per diode, 120° per module		0.45 0.075	K/W	
R _{thJH}	per diode, 120° per module		0.6 0.1	K/W	
d _s	Creeping distance on surface		10	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.

20080227a



Constants for Z_{thJC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.013	0.0012
2	0.072	0.047
3	0.175	0.326
4	0.19	2.03