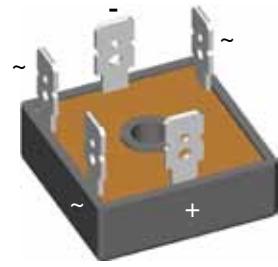
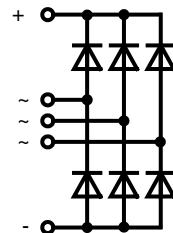


Three Phase Rectifier Bridge

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

V_{RSM}	V_{RRM}	Type
V_{DSM}	V_{DRM}	
V	V	
900	800	VUO 25-08N08
1300	1200	VUO 25-12N08
1500	1400	VUO 25-14N08
1700	1600	VUO 25-16N08
1900	1800	VUO 25-18N08



RL

Symbol	Conditions	Maximum Ratings		
I_{dAV}	$T_C = 85^\circ\text{C}$, module	20	A	
I_{dAVM}	$T_C = 63^\circ\text{C}$, module	25	A	
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t = 10 \text{ ms}$ (50 Hz)	380	A	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	400	A	
	$T_{VJ} = T_{VJM}$; $t = 10 \text{ ms}$ (50 Hz)	360	A	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	400	A	
I^2t	$T_{VJ} = 45^\circ\text{C}$; $t = 10 \text{ ms}$ (50 Hz)	725	A^2s	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	750	A^2s	
	$T_{VJ} = T_{VJM}$; $t = 10 \text{ ms}$ (50 Hz)	650	A^2s	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	650	A^2s	
T_{VJ}		-40...+150	$^\circ\text{C}$	
T_{VJM}		150	$^\circ\text{C}$	
T_{stg}		-40...+150	$^\circ\text{C}$	
V_{ISOL}	50/60 Hz, RMS $t = 1 \text{ min}$	2500	V \sim	
	$I_{ISOL} \leq 1 \text{ mA}$ $t = 1 \text{ s}$	3000	V \sim	
M_d	Mounting torque (M5) (10-32 UNF)	$2 \pm 10\%$ $18 \pm 10\%$	Nm lb.in.	
Weight	Typ.	22	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	$I_F = 150 \text{ A}$ $T_{VJ} = 25^\circ\text{C}$	2.2	V	
V_{TO}	For power-loss calculations only	0.85	V	
r_t		12	$\text{m}\Omega$	
R_{thJC}	per diode; 120° el. per module	9.30 1.55	K/W	
R_{thJH}	per diode; 120° el. per module	10.20 1.70	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.

Features

- Package with 1/4" fast-on terminals
- Isolation voltage 3000 V \sim
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

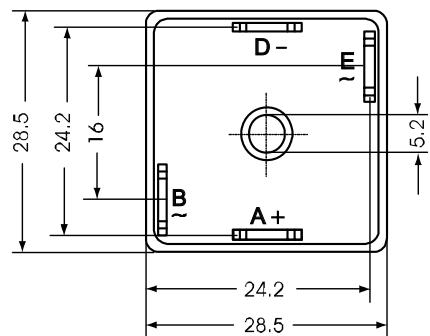
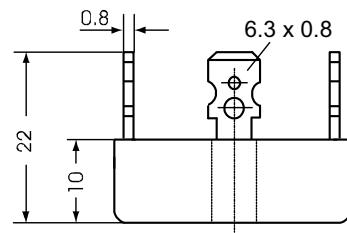
Applications

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

Advantages

- Easy to mount with one screw
- Space and weight savings
- Improved temperature & power cycling

Dimensions in mm (1 mm = 0.0394")

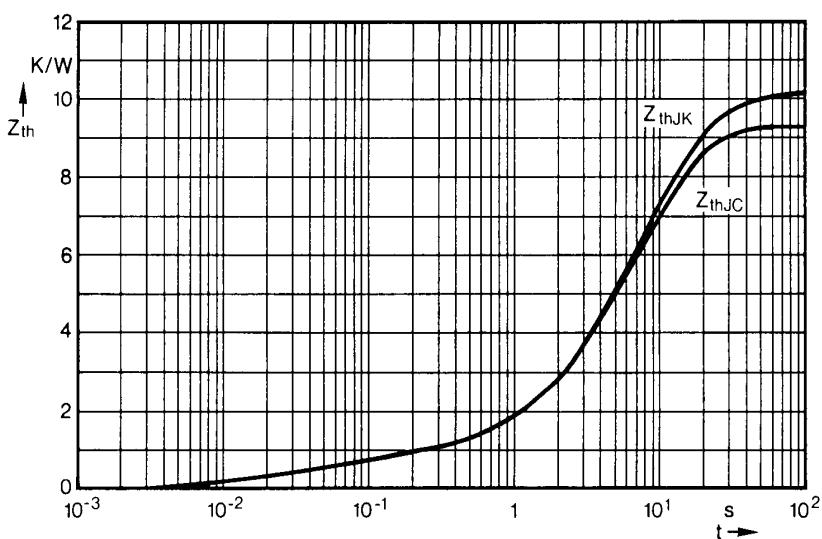
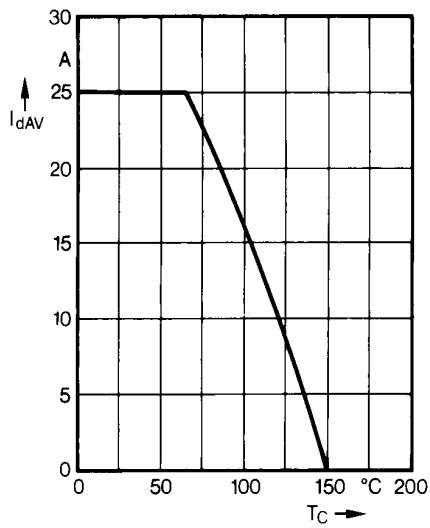
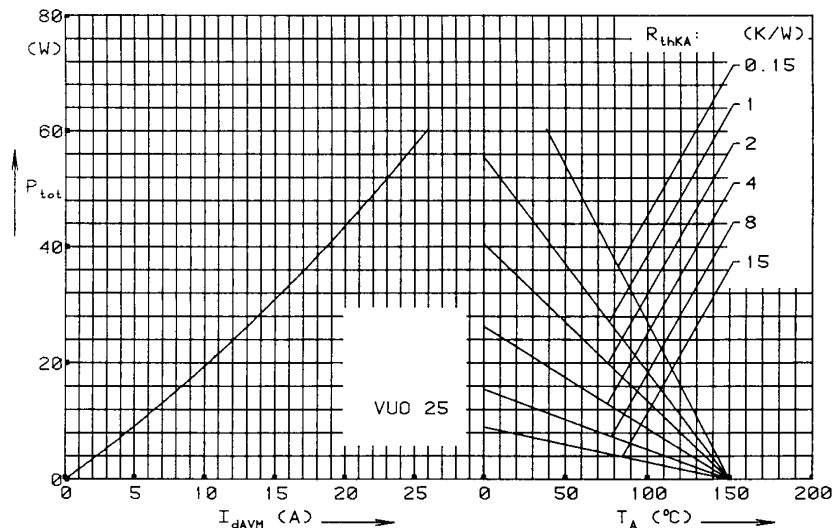
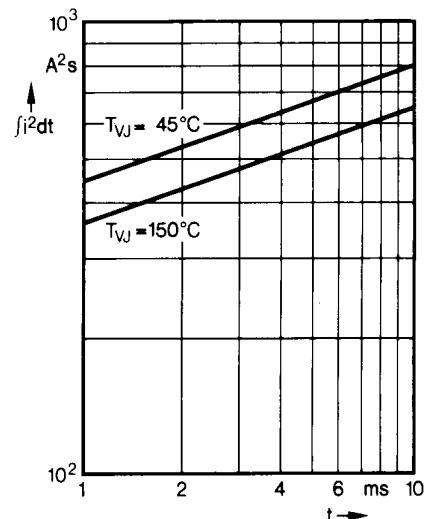
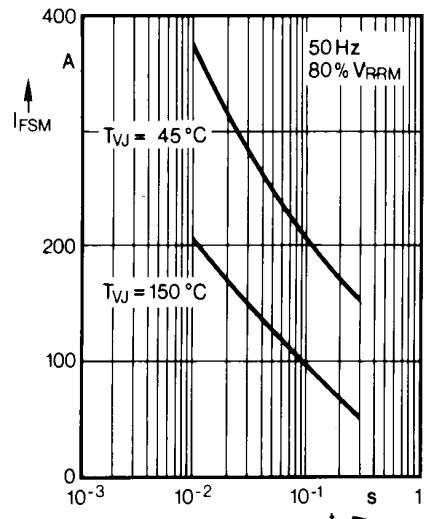
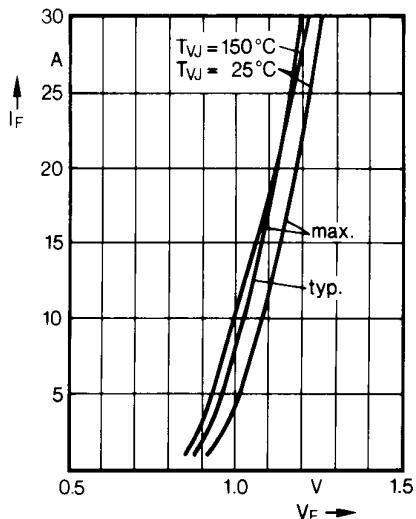


IXYS reserves the right to change limits, test conditions and dimensions.

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Constants for Z_{thJC} calculation:		
i	R _{thi} (K/W)	t _i (s)
1	0.194	0.024
2	0.556	0.07
3	2.25	5.8
4	6.3	8.5

Constants for Z_{thJK} calculation:		
i	R _{thi} (K/W)	t _i (s)
1	0.194	0.024
2	0.556	0.07
3	2.25	5.8
4	6.3	8.5
5	0.9	28