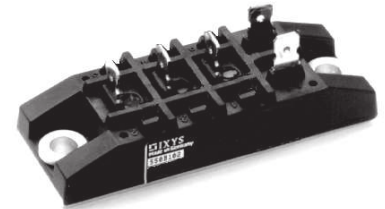
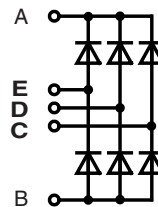


Three Phase Rectifier Bridge

$$\begin{aligned} I_{dAV} &= 70 \text{ A} \\ V_{BBM} &= 1600 \text{ V} \end{aligned}$$

V_{RSM}	V_{RRM}	Types
V	V	
1700	1600	VUO 70-16NO7



Symbol	Conditions		Maximum Ratings	
I _{dAV}	T _C = 100°C, module (for resistive load at bridge output)		70	A
I _{FSM}	T _{VJ} = 45°C	t = 10 ms (50 Hz), sine	550	A
	V _R = 0	t = 8.3 ms (60 Hz), sine	600	A
	T _{VJ} = T _{VJM}	t = 10 ms (50 Hz), sine	500	A
	V _R = 0	t = 8.3 ms (60 Hz), sine	550	A
I ² t	T _{VJ} = 45°C	t = 10 ms (50 Hz), sine	1520	A ² s
	V _R = 0	t = 8.3 ms (60 Hz), sine	1520	A ² s
	T _{VJ} = T _{VJM}	t = 10 ms (50 Hz), sine	1250	A ² s
	V _R = 0	t = 8.3 ms (60 Hz), sine	1250	A ² s
T _{VJ}			-40...+150	°C
T _{VJM}			150	°C
T _{stg}			-40...+125	°C
V _{ISOL}	50/60 Hz, RMS	t = 1 min	2500	V~
	I _{ISOL} ≤ 1 mA	t = 1 s	3000	V~
M _d	Mounting torque (M5) (10-32 UNF)		5 ±15%	Nm
			44 ±15%	
lb.in.				
Weight	typ.		110	g

Features

Package with copper base plate
Isolation voltage 3000 V~
Planar passivated chips
Low forward voltage drop
1/4" fast-on power terminals

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 capability
- Small and light weight

Symbol	Conditions	Characteristic Values
I_R	$V_R = V_{RRM}$ $V_R = V_{RRM}$	$T_{VJ} = 25^\circ\text{C}$ $T_{VJ} = T_{VJM}$
V_F	$I_F = 150\text{ A}$	$T_{VJ} = 25^\circ\text{C}$
V_{T0}	For power-loss calculations only	
r_T		
R_{thJC}	per diode; DC current	
	per module	
R_{thJH}	per diode, DC current	
	per module	
d_s	Creeping distance on surface	
d_A	Creepage distance in air	
a	Max. allowable acceleration	

Data according to IEC 60747 refer to a single diode unless otherwise stated

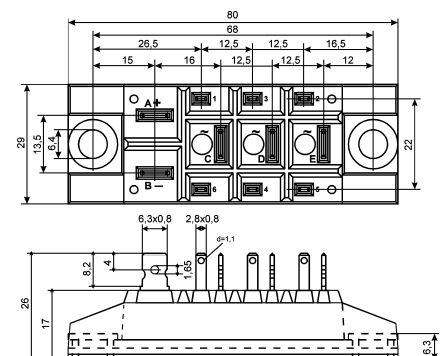
Disclaimer Notice

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.

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

20200625c

Dimensions in mm (1 mm = 0.0394")



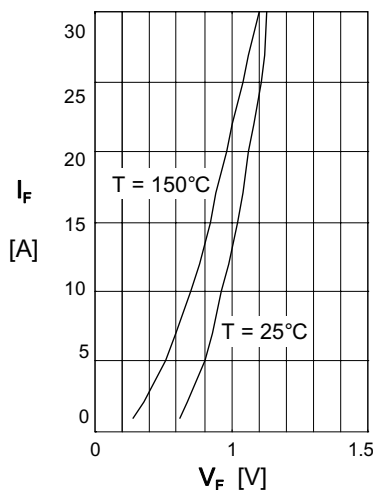


Fig. 1 Forward current vs. voltage drop per diode

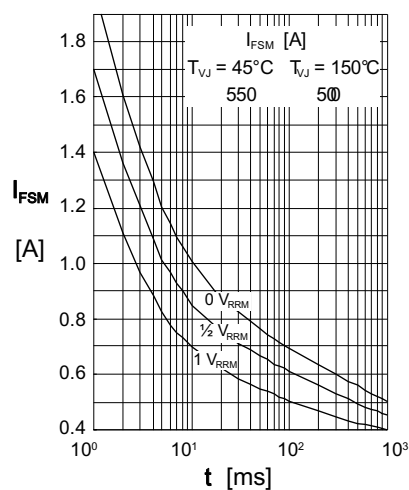


Fig. 2 Surge overload current per diode. t = duration
 I_{FSM} = Crest value

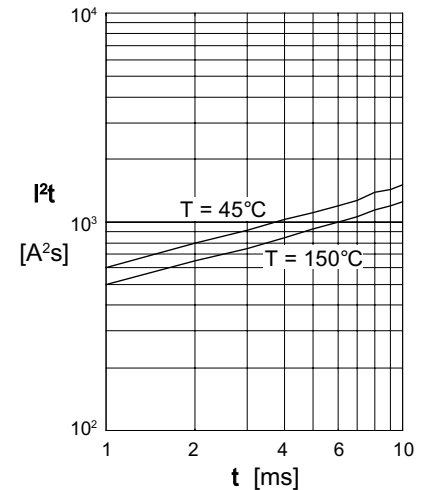


Fig. 3 I^2t vs. time (1-10 ms) per diode/thyristor

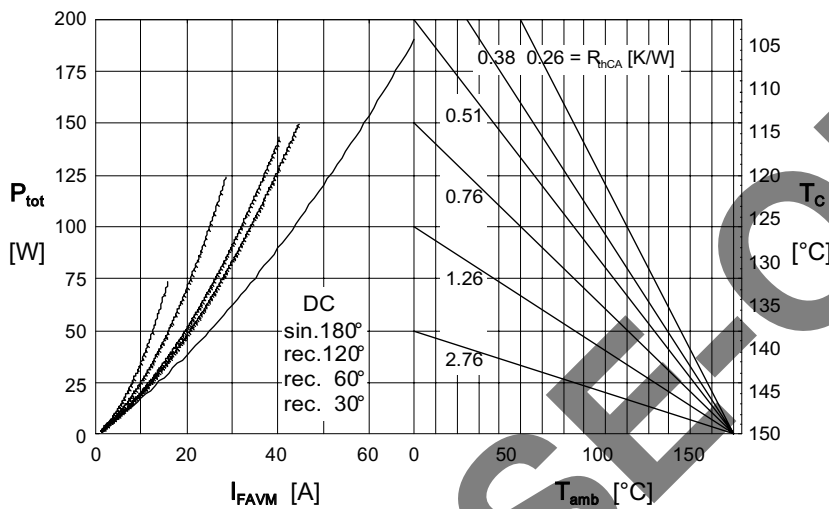


Fig. 4 Power dissipation versus direct output current and ambient temperature

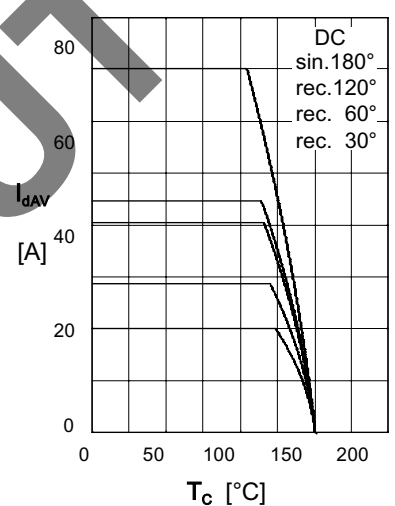


Fig. 5 Max. forward current at case temperature

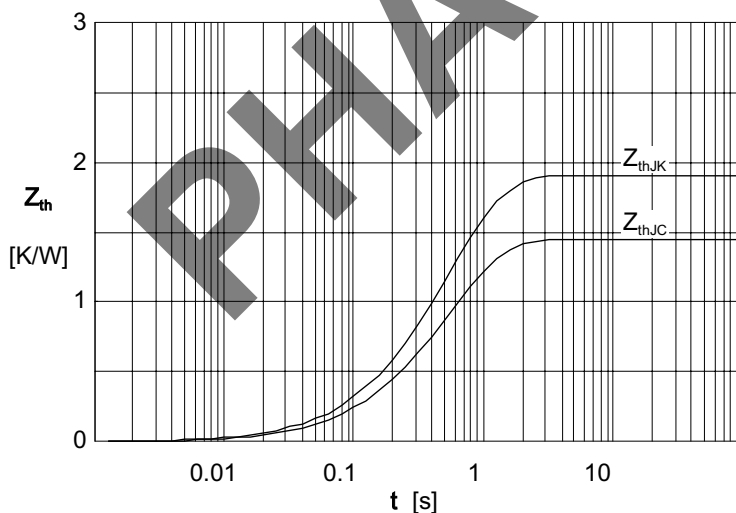


Fig. 6 Transient thermal impedance per diode/thyristor, calculated