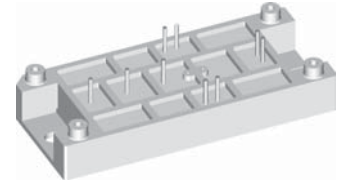
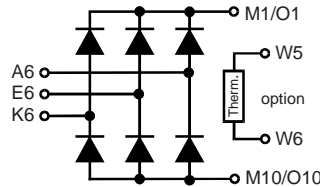


Three Phase Rectifier Bridge

$I_{dAVM} = 121/157 \text{ A}$
 $V_{RRM} = 1200-1600 \text{ V}$

V_{RRM}	Type	V_{RRM}	Type
V	V		
1200	VUO 120-12 NO1	1600	VUO 120-16 NO1
1200	VUO 155-12 NO1	1600	VUO 155-16 NO1



Symbol	Test Conditions	Maximum Ratings	
		VUO 120	VUO155
V_{RRM}		1200/1600	1200/1600 V
I_{dAVM}	$T_C = 75^\circ\text{C}$, sinusoidal 120°	121	157 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$, $t = 10 \text{ ms}$, $V_R = 0 \text{ V}$	650	850 A
	$T_{VJ} = 150^\circ\text{C}$, $t = 10 \text{ ms}$, $V_R = 0 \text{ V}$	580	760 A
I^2t	$T_{VJ} = 45^\circ\text{C}$, $t = 10 \text{ ms}$, $V_R = 0 \text{ V}$	2110	3610 A
	$T_{VJ} = 150^\circ\text{C}$, $t = 10 \text{ ms}$, $V_R = 0 \text{ V}$	1680	2880 A
P_{tot}	$T_C = 25^\circ\text{C}$ per diode	150	190 W
T_{VJ}		-40...+150	°C
T_{VJM}		150	°C
T_{stg}		-40...+125	°C
V_{ISOL}	50/60 Hz $I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ min}$	3000 V~
		$t = 1 \text{ s}$	3600 V~
M_d	Mounting torque (M5) (10-32 unf)		2-2.5 Nm
			18-22 lb.in.
d_s	Creep distance on surface	12.7	mm
d_A	Strike distance in air	9.4	mm
a	Maximum allowable acceleration	50	m/s^2
Weight	typ.	80	g

Features

- Soldering connections for PCB mounting
- Isolation voltage 3600 V~
- Convenient package outline
- UL registered E 72873
- Case and potting UL94 V-0

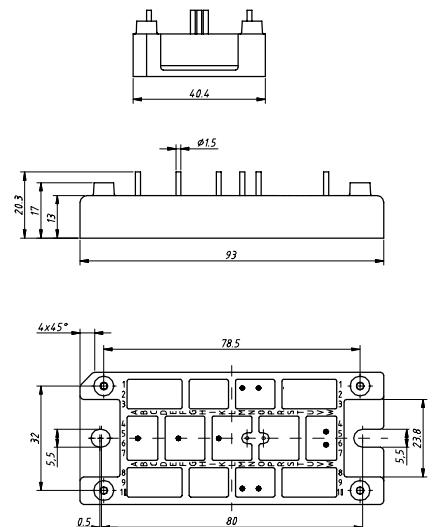
Applications

- Input Rectifier for Drive Inverters

Advantages

- Easy to mount with two screws
- Suitable for wave soldering
- High temperature and power cycling capability

Dimensions in mm (1 mm = 0.0394")



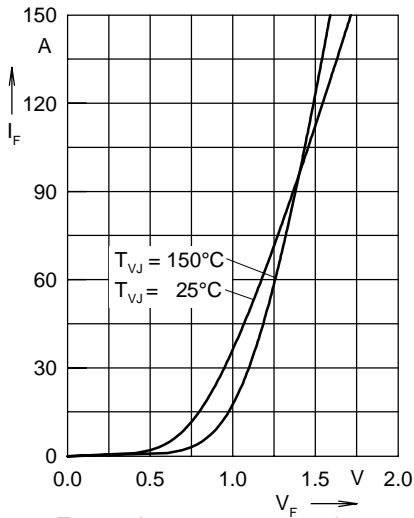


Fig. 1 Forward current versus voltage drop per diode

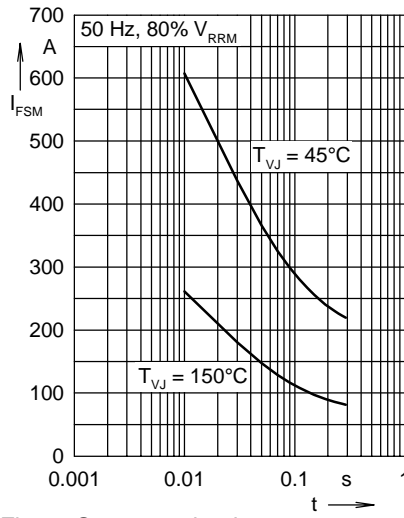


Fig. 2 Surge overload current

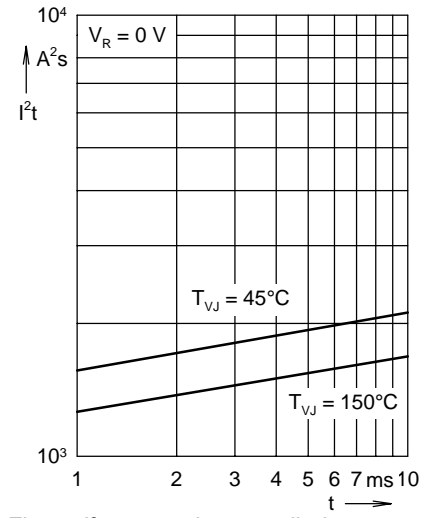


Fig. 3 I^2t versus time per diode

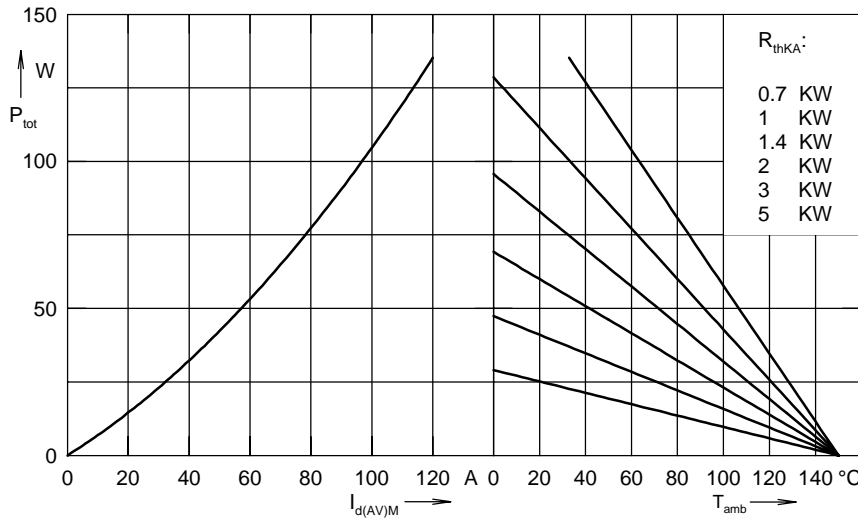


Fig. 4 Power dissipation versus direct output current and ambient temperature, sine 120°

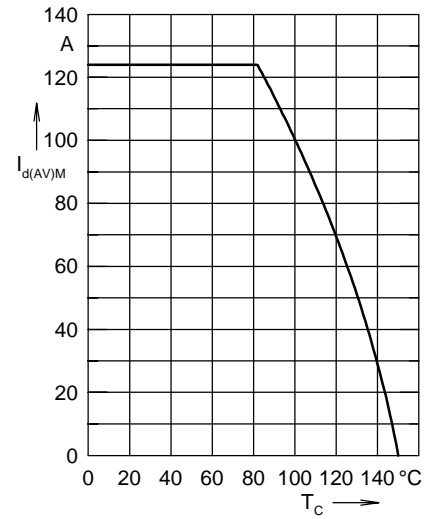


Fig. 5 Max. forward current versus case temperature

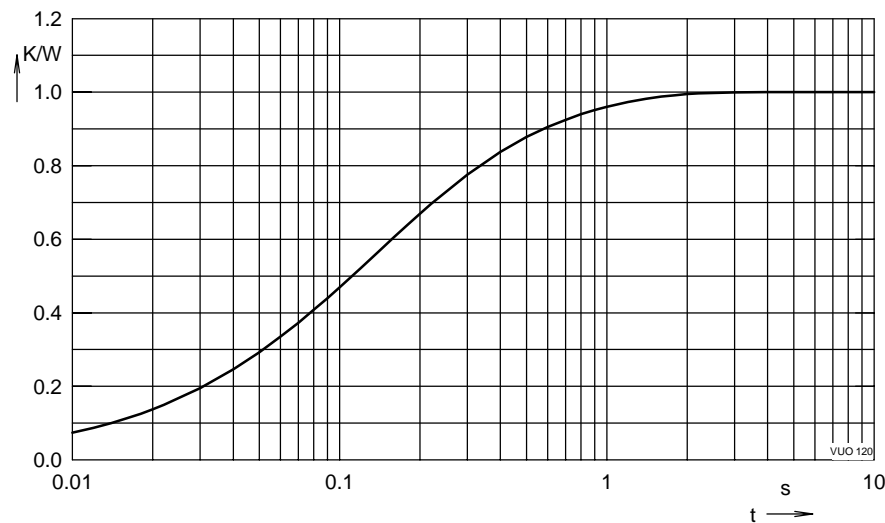


Fig. 6 Transient thermal impedance junction to case

Constants for Z_{thjC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.003521	0.01
2	0.1479	0.05
3	0.5599	0.14
4	0.2887	0.5

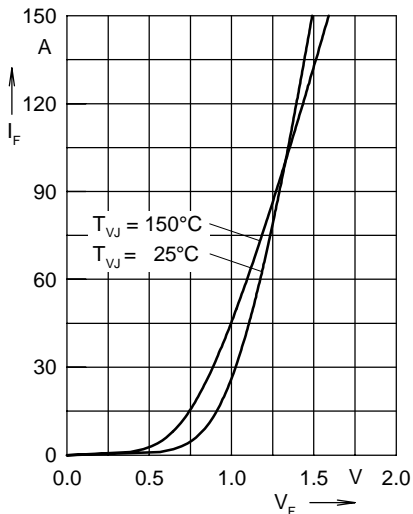


Fig. 1 Forward current versus voltage drop per diode

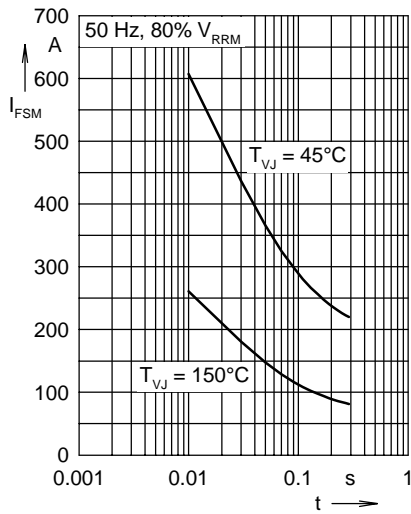


Fig. 2 Surge overload current

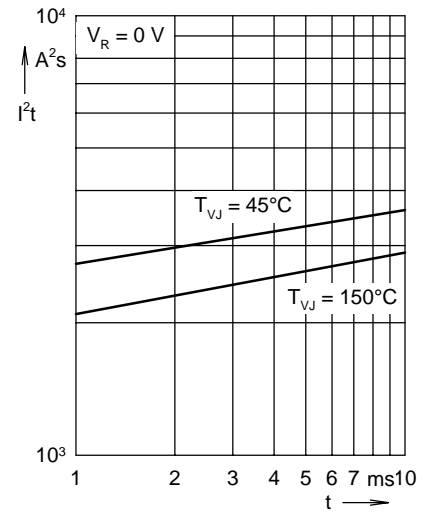


Fig. 3 I²t versus time per diode

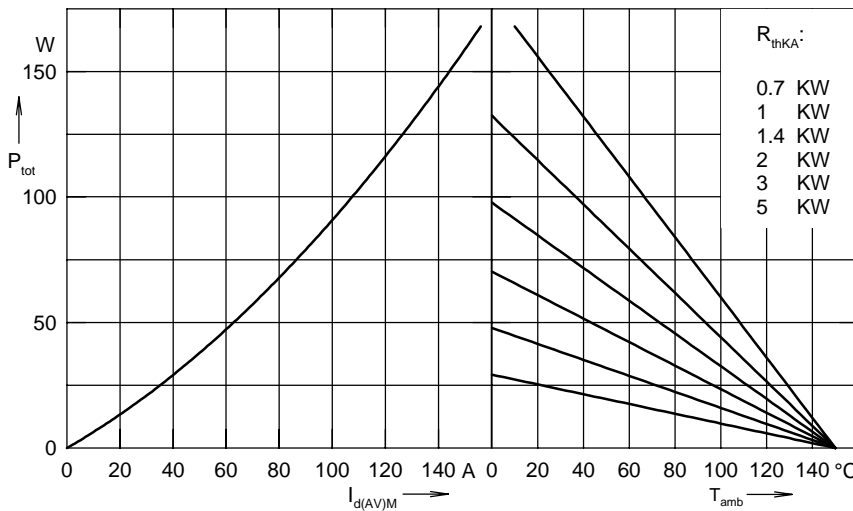


Fig. 4 Power dissipation versus direct output current and ambient temperature, sine 120°

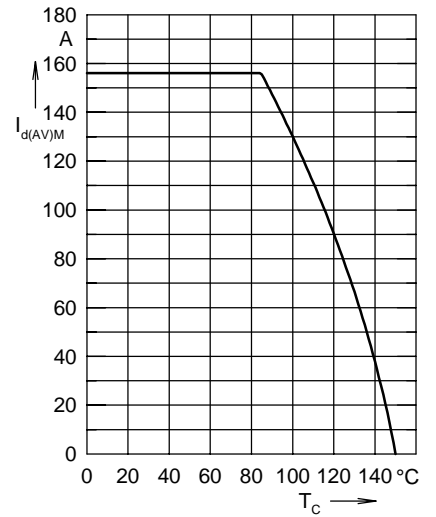


Fig. 5 Max. forward current versus case temperature

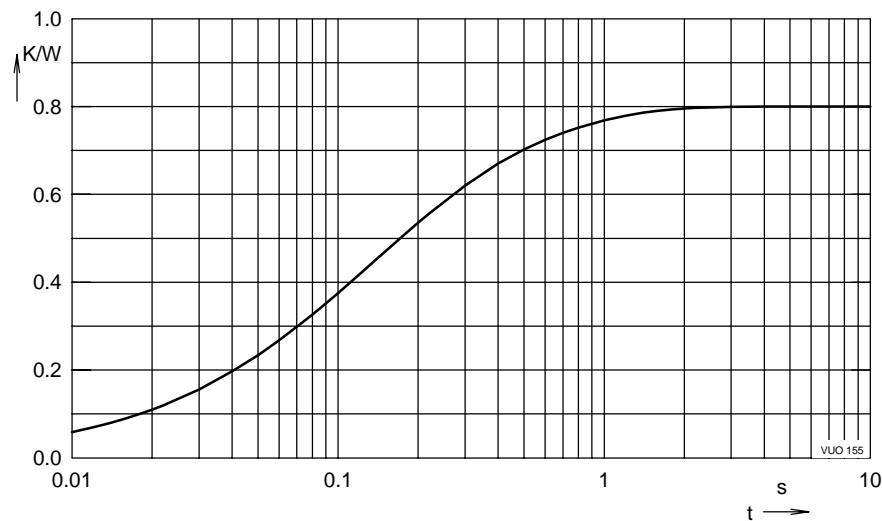


Fig. 6 Transient thermal impedance junction to case

Constants for Z_{thJC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.002817	0.01
2	0.1183	0.05
3	0.4479	0.14
4	0.231	0.5