MMS75.12

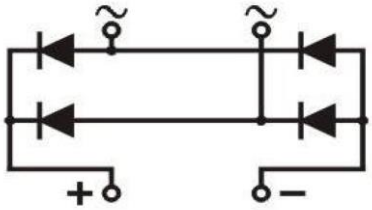
Power Rectifier bridge

Features:

- International standard package
- Low forward voltage drop
- Isolation voltage 2500V ~
- Simple mounting
- UL recognized, file no. E312789

Typical applications:

- DC power suppliers for apparatus device
- Input rectifying power supply for PWM converters
- Inverter welders
- Battery chargers



Symbol	Characteristcs	Test Conditions	Value			Unit
			Min	Typ	Max	
$V_{RSM/DSM}$	Non-repetitive reverse/forward blocking voltage	Tj = 25°C			1300	V
$V_{RRM/DRM}$	Repetitive reverse/forward blocking voltage	Tj = 25°C			1200	V
I_D	Rectifier bridge output current	Three-phase whole wave rectifying circuit, T_c = 100°C			75	A
I_{RRM}	Repetitive peak reverse current	at V_{RRM} Tj = 150°C			5	mA
I_{FSM}	Forward surge current	10ms half sine wave, Tj = 150°C			1000	A
I^2t	I^2t for fusing coordination	V_R = 0.6 V_{RRM}, Tj = 150°C			5000	A^2s
V_{FO}	Threshold voltage	Tj = 150°C			0.90	V
r_T	Forward slope resistance	Tj = 150°C			5	mΩ
V_{FM}	Peak forward voltage	T=25°C ; I_T=112A		1.00	1.20	V
$R_{th(j-c)}$	Thermal resistance junction to case	per module			0.39	°C/W
$R_{th(c-s)}$	Thermal resistance case to sink	per module			0.07	°C/W
V_{ISO}	Isolation voltage	50Hz, RMS, t = 1min			2500	V
F_M	Mounting torque - copper plate (M6)		4		6	N·m
	Mounting torque - terminal (M5)		2.5		4.5	N·m
T_{stg}	Storage Temperature		-40		150	°C
T_j	Operating Temperature		-40		150	°C
W_t	Weight			190		g
Outline	M18					

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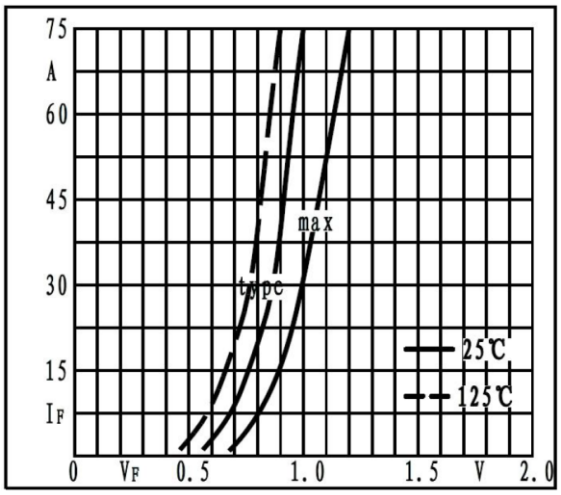


Fig1. Forward characteristics

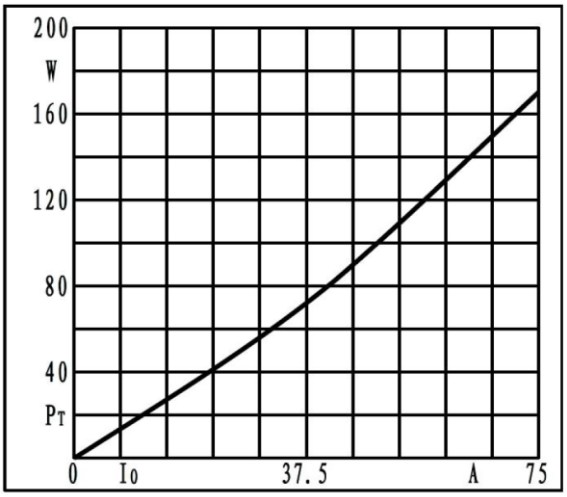


Fig2. Power dissipation

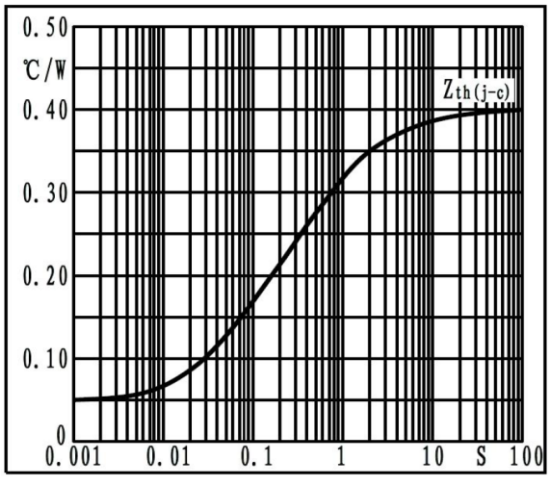


Fig3. Transient thermal impedance

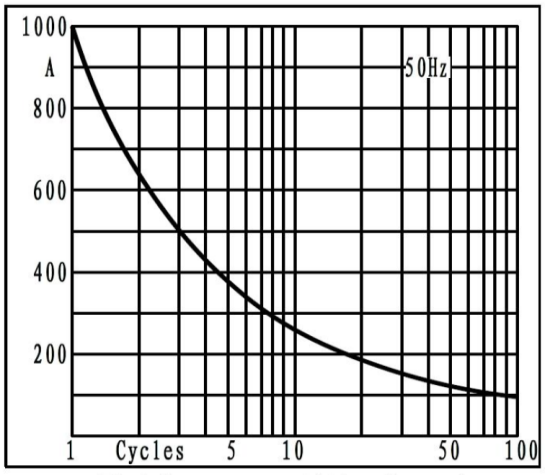


Fig4. Max non-repetitive forward surge current

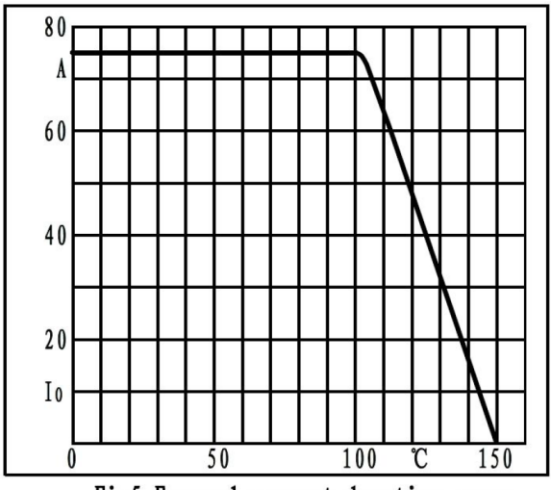
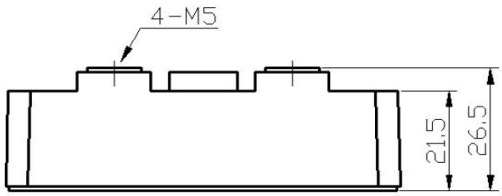
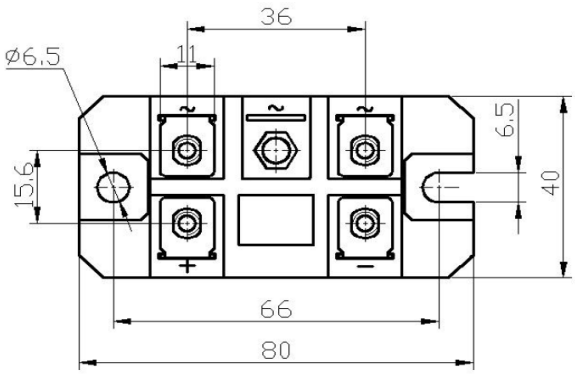


Fig5. Forward current derating curve





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