

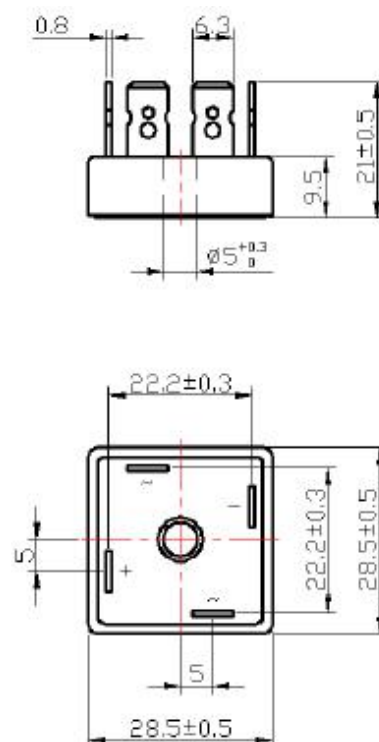
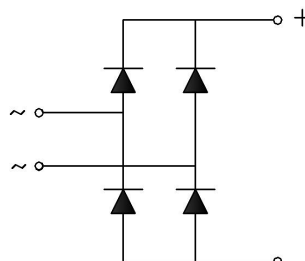


MMS35.16MB BY

1PH POWER RECTIFIER BRIDGE 35A 1600V

Feature

- Low forward voltage drop
- Isolation voltage 2000V~
- Small volume, light weight
- Low thermal resistance, high heat-conductivity, low temperature rise



Application

- Power supply for DC power device
- Input rectifier for PWM converter
- Inverter welding machine

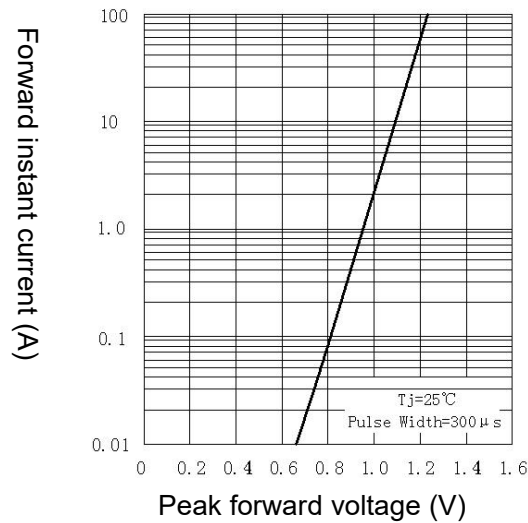
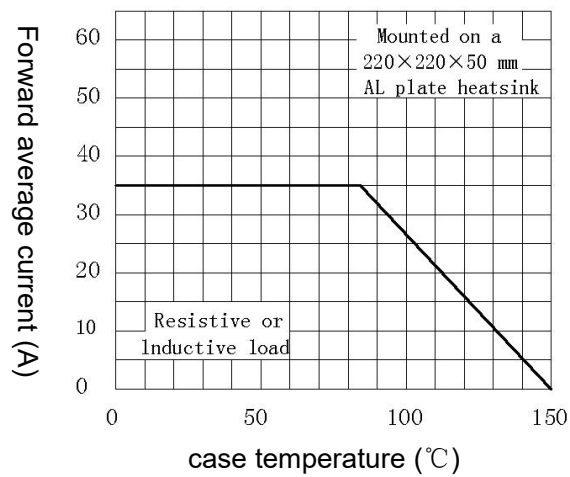
■ Maximum value

Symbol	Parameter	Rating	Unit
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V_{RRM}	Reverse peak repetitive voltage	1600	V
V_{RSM}	Reverse peak non-repetitive voltage	1700	V

Symbol	Parameter	Test condition	Rating	Unit
$I_F (AV)$	Forward average current	$T_C=78^{\circ}C$	35	A
I_{FSM}	Forward surge current	$t=10ms, 50Hz, sin, T_J=25^{\circ}C$	400	A
I^2t	I^2t value		800	A ² S
V_{ISO}	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$	2000	V
T_J	Operating junction temperature		-40 to +150	°C
T_{jm}	Rated junction temperature		150	°C
T_{stg}	Storage temperature		-40 to +125	°C
M_d	Mounting torque M5		2	N·m
W_t	Weight		18	g

■ Electrical characteristics

Symbol	Parameter	Test condition	Max value	Unit
I_{RRM}	Peak reverse repetitive current	$V_R=V_{RRM}, T_J=25^{\circ}C$	5	μA
		$V_R=V_{RRM}, T_J=150^{\circ}C$	3	mA
V_{FM}	Peak forward voltage	$I_{FM}=17.5A, T_J=25^{\circ}C$	1.18	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-sided heat dissipation, sine half-wave	1.4	°C/W

Forward characteristics curve

Case temperature vs forward average current

Forward surge current vs cycles
