



# SCOMES

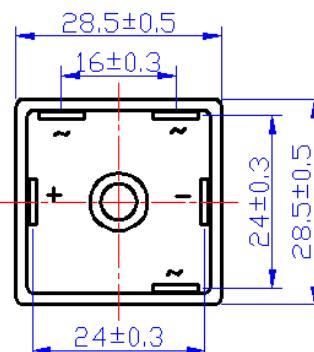
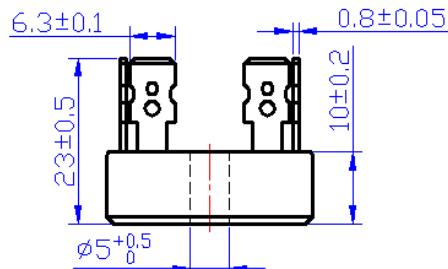
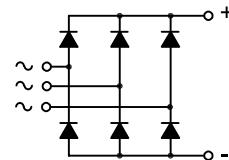
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## MTS35.16BY

### 3PH POWER RECTIFIER BRIDGE 35A 1600V

#### Feature

- Glass-passivated chip ensures high stability
- Low forward voltage drop
- Isolation voltage 2500V ~
- 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
- DC motor
- Rectifying device for frequency convertors with power under/and 2.2KW

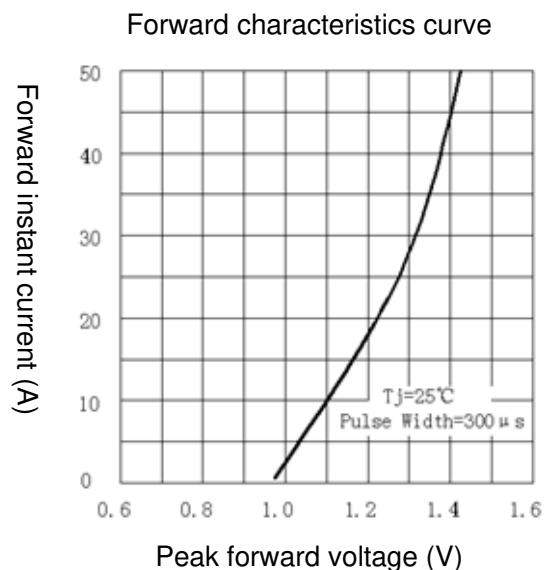
#### ■ Maximum value

Symbol	Parameter	MTS35.16BY	Unit
V <sub>RRM</sub>	Reverse peak repetitive voltage	1600	V
V <sub>RSM</sub>	Reverse peak non-repetitive voltage	1700	V

Symbol	Parameter	Test condition	Rating	Unit
I <sub>F(AV)</sub>	Forward average current	T <sub>C</sub> =78°C	35	A
I <sub>FSM</sub>	Forward surge current	sine wave 50Hz ,t=10ms,T <sub>j</sub> =25°C	400	A
I <sup>2</sup> t	I <sup>2</sup> t value		800	A <sup>2</sup> S
V <sub>ISO</sub>	Isolation voltage	50Hz , R.M.S , t=1min , I <sub>iso</sub> :1mA(max)	2500	V
T <sub>j</sub>	Operating junction temperature		-40 to +150	°C
T <sub>jm</sub>	Rated junction temperature		150	°C
T <sub>stg</sub>	Storage temperature		-40 to +125	°C
M <sub>d</sub>	Mounting torque M5		2	N·m
W <sub>t</sub>	Weight		21	g

#### ■ Electrical characteristics

Symbol	Parameter	Test condition	Max value	Unit
I <sub>RRM</sub>	Peak reverse repetitive current	V <sub>R</sub> =V <sub>RRM</sub> , T <sub>j</sub> =25°C	5	µA
		V <sub>R</sub> =V <sub>RRM</sub> , T <sub>j</sub> =150°C	3	mA
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =17.5A, T <sub>j</sub> =25°C	1.18	V
R <sub>th(j-c)</sub>	Thermal impedance ( junction-case )	Single-sided heat dissipation	0.9	°C/W



Case temperature vs forward average current

