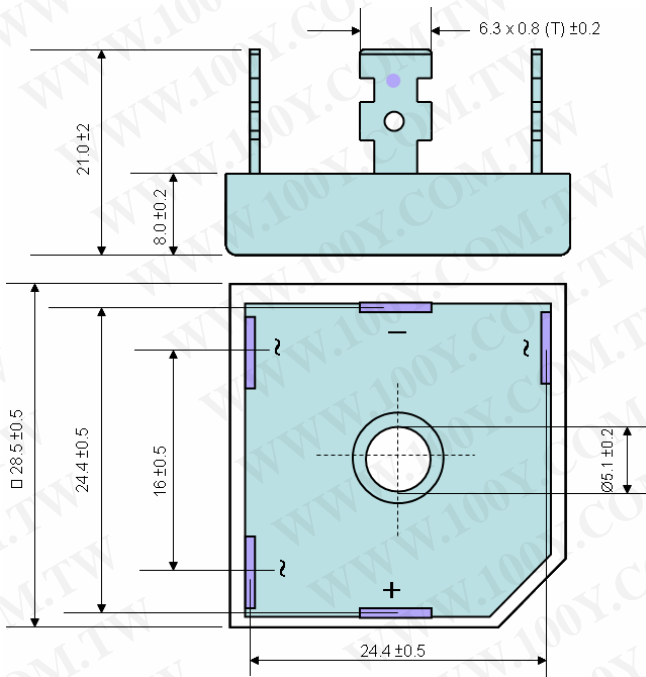
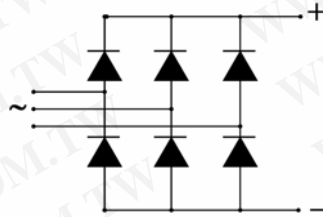


Case MT-35

All dimensions in millimeters



3-phase Glass Passivated Bridge Rectifiers

Reverse Voltage 600 to 1600V
Forward current 35 Amp

Features

- High thermal conductivity package, electrically insulated case.
- Centre hole fixing
- Glass passivated chips
- Low forward voltage drop
- High IFSM
- Epoxy compound has classification UL94V-0

Application

- Big power supply
- Air conditioner
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motor

Mechanical Data

Case: Epoxy case with heatsink internally

Terminals: 1/4" Fast-on terminals

Polarity: Marked on Body

Mounting Position: Any

Weight: 25 gms

SMSC Catalog Number	Maximum Repetitive Peak Reverse Voltage V_{RRM}	Maximum Alternating Input Voltage V_{RMS}
MT3506	600V	420V
MT3508	800V	560V
MT3510	1000V	700V
MT3512	1200V	840V
MT3514	1400V	980V
MT3516	1600V	1120V

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Average Rectified Forward Current	I_o	35	A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	450	A
Rating for fusing (t<8.3ms)	I^2t	800	A ² sec
Operating Junction and storage temperature range	T_j, T_{STG}	-55 to +150	°C

Electrical Characteristics (TA = 25°C unless otherwise noted)

Maximum Instantaneous Forward Voltage per leg	V_F	1.1V	$I_{FM} = 17.5A$
Maximum DC reverse current at V_{RRM}	I_R	5.0μA 500μA	$T_A = 25^\circ C$ $T_A = 125^\circ C$

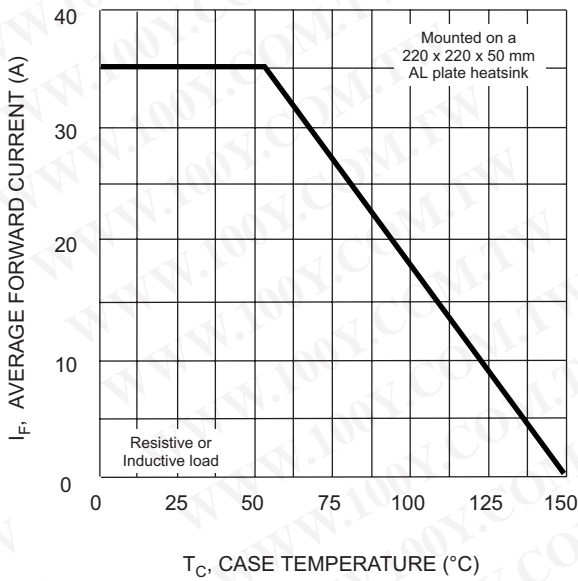


Fig. 1 Forward Current Derating Curve

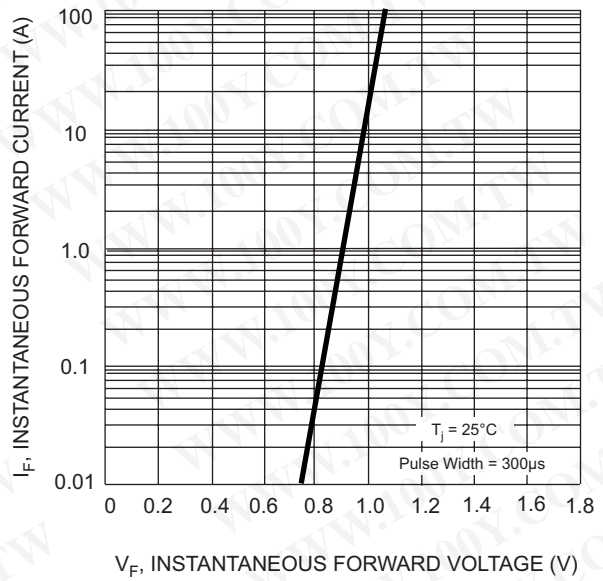


Fig. 2 Typical Forward Characteristics (per element)

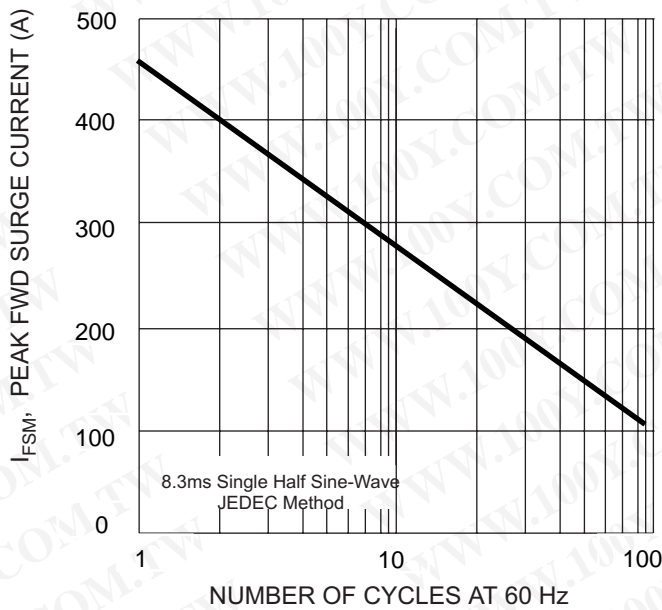


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

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