



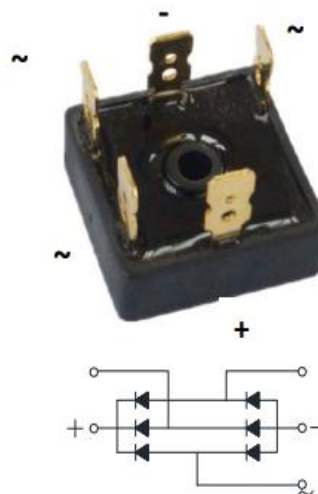
MT3510 THRU MT3516

Three Phase 35.0 AMP Glass Passivated Bridge Rectifier

1. Features

- Glass passivated die construction.
- Low forward voltage drop.
- High surge current capability
- Ideal for printed circuit board.

Case: MT



Dimensions in millimeters

2. Mechanical Data

- Case: MT Molded Plastic .
- Epoxy: UL 94V-0 rate flame retardant.
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208.
- Polarity: marked on body
- Marking Information: Type Number
- Mounting Position : Any.

3. Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

For capacitive load derate current by 20%.

Type Number	SYMBOL	MT3510	MT3512	MT3514	MT3516	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	1200	1400	1600	V
Average Rectified Output Current@60Hz sine wave, R-load, T _C =55℃ (with heatsink)	I _{F(AV)}	35				A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400				A
Rating for fusing (t<8.3ms)	I ² t	664				A ² s
Forward Voltage @I _F =17.5A	V _{FM}	1.20				V
Peak Reverse Current@T _A =25℃	I _R	5				uA
At Rated DC Blocking Voltage@T _J =125℃		1000				
Dielectric Strength	V _{ids}	2500				V
The proposed installation torque	T _{or}	10				Kgf.cm
Typical Thermal Resistance Junction to Case(with heatsink)	R _{θJC}	1.7				℃/W
Operating Temperature Range	T _J	-55 to +150				℃
Storage Temperature Range	T _{STG}	-55 to +150				℃



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4. Rating And Characteristic Curves

Fig.1 Output Current Derating Curve

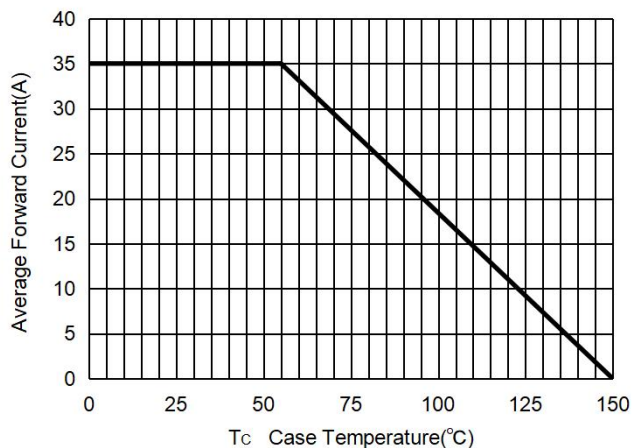


Fig.2 Typical Forward Characteristics

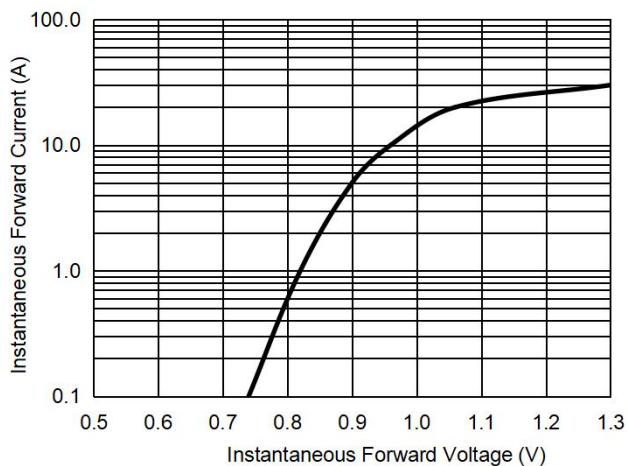


Fig.3 Maximum Peak Forward Surge Current

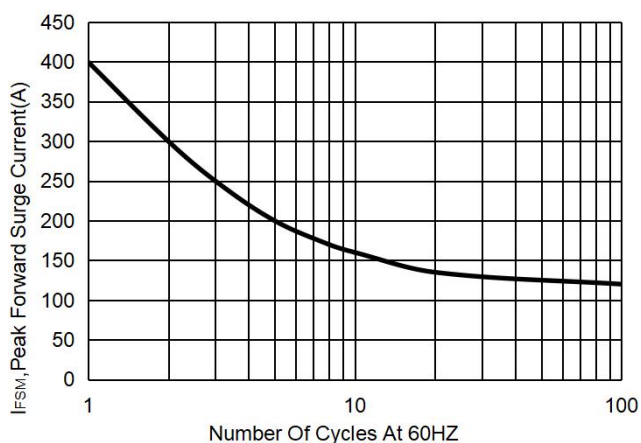
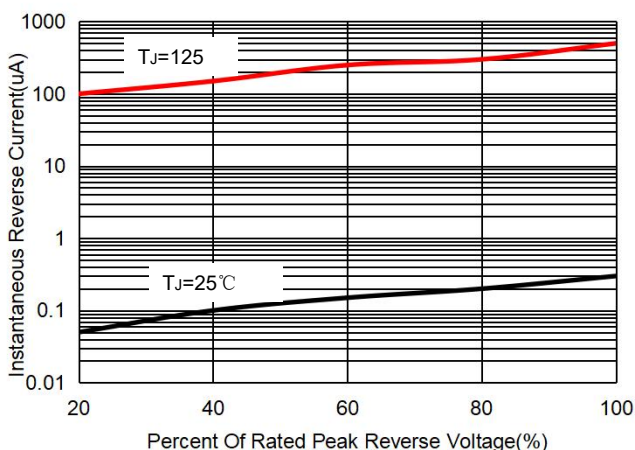
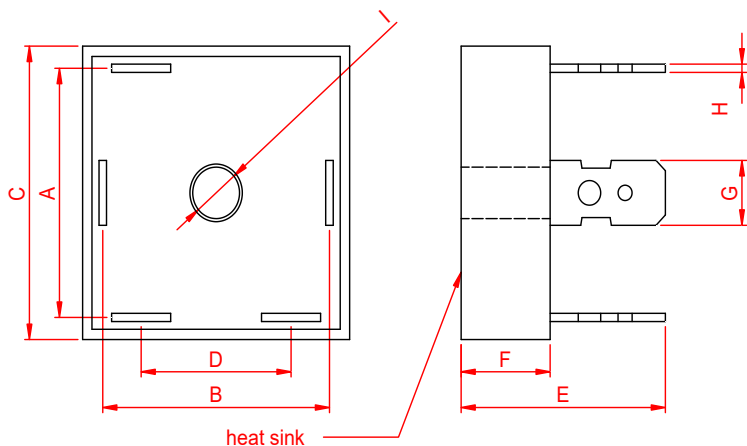


Fig.4 Typical Reverse Characteristics



5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.909	0.949	23.10	24.10
B	0.909	0.949	23.10	24.10
C	1.102	1.142	28.00	29.00
D	0.610	0.650	15.50	16.50
E	0.819	0.984	20.80	25.00
F	0.354	0.394	9.00	10.00
G	0.240	0.256	6.10	6.50
H	0.024	0.039	0.60	1.00
I	0.177	0.220	4.50	5.60



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