

MT25, MT35 SERIES

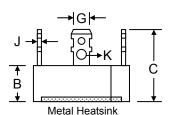
25A, 35A GLASS PASSIVATED THREE-PHASE BRIDGE RECTIFIER



Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- **High Reliability**
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

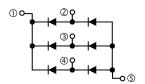
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MT							
Dim	Min	Max					
Α	28.40	28.70					
В	1	10.00					
C	22.86	23.86					
D	23.80	24.80					
Е	16.00 Typical						
G	6.35 Typical						
H	5.08Ø Nominal						
J	0.71	0.91					
K	2.50Ø Typical						
All Dimensions in mm							

Mechanical Data

- Case: Epoxy Case with Heat Sink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Faston Lugs Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 21 grams (approx.)
- Mounting Position: Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
- Mounting Torque: 2.0 N.m Max.
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 5



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Voltage Ratings

Characteristics	Symbol	MT25, MT35						Unit				
Characteristics		00	01	02	04	06	08	10	12	14	16	Offic
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	VRSM	75	150	275	500	725	900	1100	1300	1500	1700	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V

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Forward Conduction

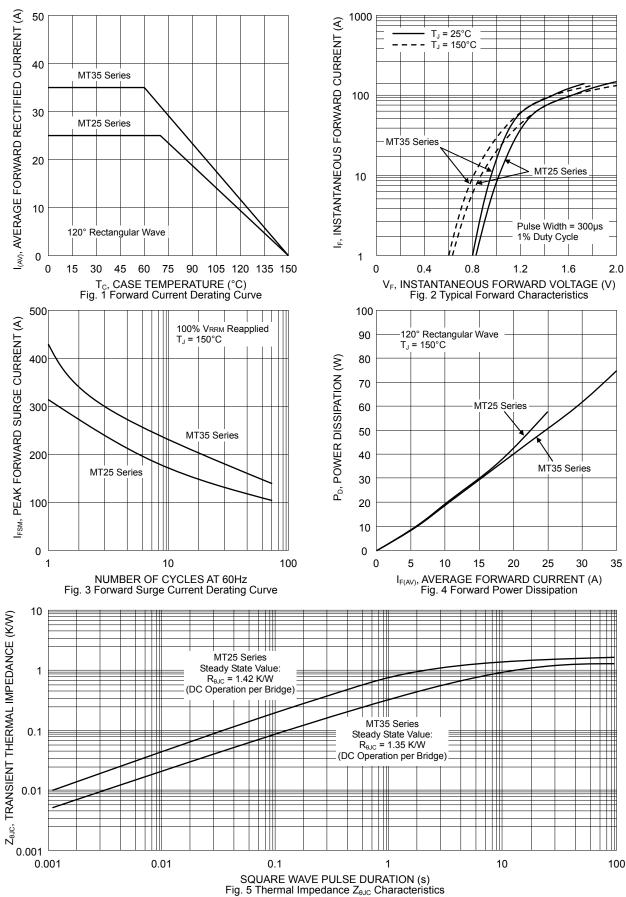
Characteristic	Symbol	MT25	MT35	Unit
Average Rectified Output Current MT25 @T _C = 70°C, MT35 @ T _C = 60°C	lo	25	35	А
Non-Repetitive Peak Forward Surge Current (No Voltage Reapplied t = 8.3ms at 60Hz) (No Voltage Reapplied t = 10ms at 50Hz) (100% VRRM Reapplied t = 8.3ms at 60Hz) (100% VRRM Reapplied t = 10ms at 50Hz)	IFSM	375 360 314 300	500 475 420 400	А
I ² t Rating for Fusing (No Voltage Reapplied t = 8.3ms at 60Hz) (No Voltage Reapplied t = 10ms at 50Hz) (100% VRRM Reapplied t = 8.3ms at 60Hz) (100% VRRM Reapplied t = 10ms at 50Hz)	l ² t	580 635 410 450	1030 1130 730 800	A ² s
Maximum Forward Voltage Drop @TJ = 25°C, @I _{FM} = 40A _{pk} per single junction	VF	1.26	1.19	٧
Peak Reverse Current (per leg) @TJ = 25°C At Rated DC Blocking Voltage @TJ = 125°C		10 5.0		μA mA
RMS Isolation Voltage Terminals to Case, t = 1min		25	00	V

Thermal Characteristics

Thermal Resistance Junction to Case @ DC Operation per Bridge	R JC	1.42	1.35	K/W
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	R cs	0.2		K/W
Operating Temperature Range	TJ -40 to +150		o +150	°C
Storage Temperature Range	TSTG -40 to +150		o +150	°C

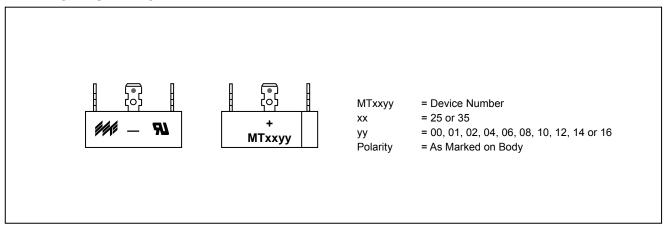
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MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
195 x 195 x 40	50	405 x 205 x 240	500	12.0

Note: 1. Paper box, white or brown color.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MT25xx	Square Bridge	50 Units/Box
MT35xx	Square Bridge	50 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MT2500-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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