

MT25, 35 SERIES 🎎 🙌

25, 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

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: 23 cm-kg (20 in-lbs) Max.
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 7



Metal Heatsink

МТ						
Dim	Min	Max				
Α	28.40	28.70				
В	—	10.00				
С	22.86	23.86				
D	—	25.30				
E	16.00 Typical					
G	6.35 x 0.80					
Н	5.10 Ø 5.30 Ø					
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @T_A=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, 35							110:4			
Characteristics		00	01	02	04	06	08	10	12	14	16	Unit
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

Forward Conduction

Characteristic	Symbol	MT25	МТ35	Unit
Average Rectified Output Current MT25 @ $T_c = 70^{\circ}$ C, MT35 @ $T_c = 60^{\circ}$ 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 = 8.3ms at 50Hz)	IFSM	375 360 314 300	500 475 420 400	A
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	A²s
Maximum Forward Voltage Drop @Tj = 25°C, @I _{FM} = $40A_{pk}$ per single junction	VF	1.26	1.19	V
Peak Reverse Current (per leg)@Tj = 25°CAt Rated DC Blocking Voltage@Tj = 125°C	IR	10 5.0		μA mA
RMS Isolation Voltage from Case to Lead	Viso	25	00	V

Thermal Characteristics

Thermal Resistance Junction to Case at DC Operation per Bridge	R _θ JC	1.42	1.16	K/W
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	R θ cs	0.2		K/W
Operating Temperature Range	Tj	-40 to +150		°C
Storage Temperature Range	Tstg	-40 to +150		°C







MARKING INFORMATION



PACKAGING INFORMATION

BULK

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

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

Product No.	Package Type	Shipping Quantity
MTxx00	Square Bridge	50 Units/Box
MTxx01	Square Bridge	50 Units/Box
MTxx02	Square Bridge	50 Units/Box
MTxx04	Square Bridge	50 Units/Box
MTxx06	Square Bridge	50 Units/Box
MTxx08	Square Bridge	50 Units/Box
MTxx10	Square Bridge	50 Units/Box
MTxx12	Square Bridge	50 Units/Box
MTxx14	Square Bridge	50 Units/Box
MTxx16	Square Bridge	50 Units/Box

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order 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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