
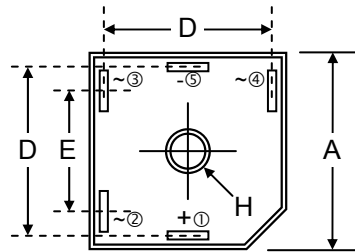


Features

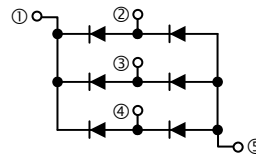
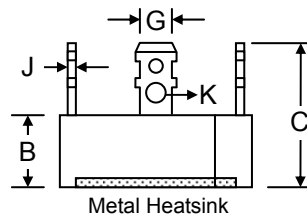
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
-  Recognized File # E157705

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: 2.0 N.m Max.
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 5**



MT		
Dim	Min	Max
A	28.40	28.70
B	—	10.00
C	22.86	23.86
D	23.80	24.80
E	16.00 Typical	
G	6.35 Typical	
H	5.08Ø Nominal	
J	0.71	0.91
K	2.50Ø Typical	
All Dimensions in mm		



Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ 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
		00	01	02	04	06	08	10	12	14	16	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	V_{RSM}	75	150	275	500	725	900	1100	1300	1500	1700	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	980	1120	V

MT25, MT35 SERIES

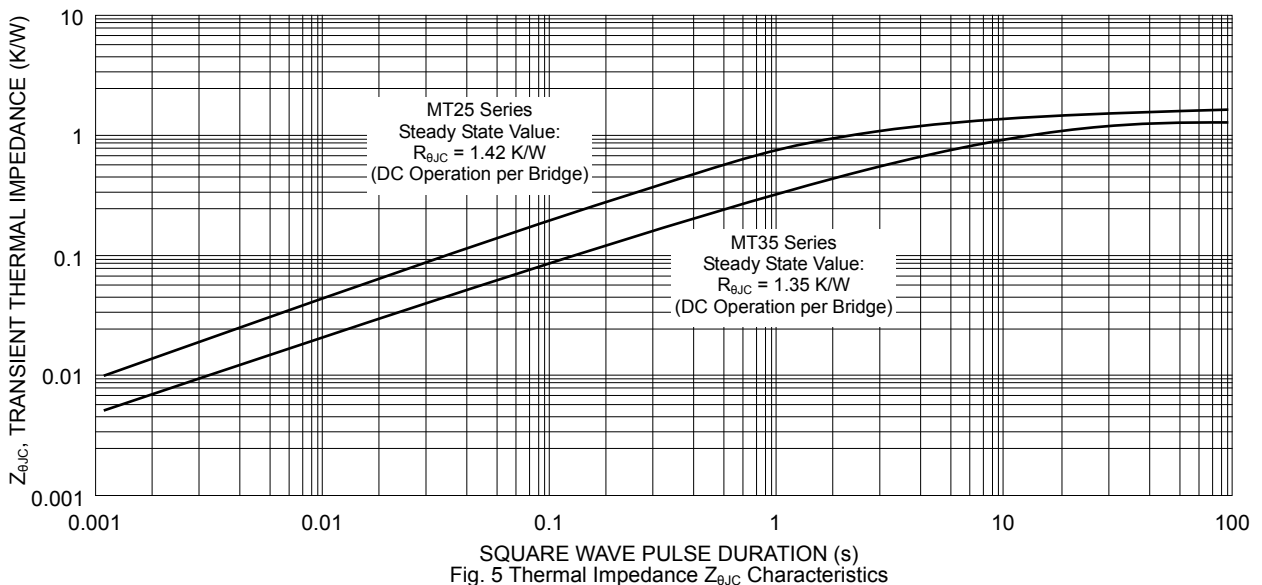
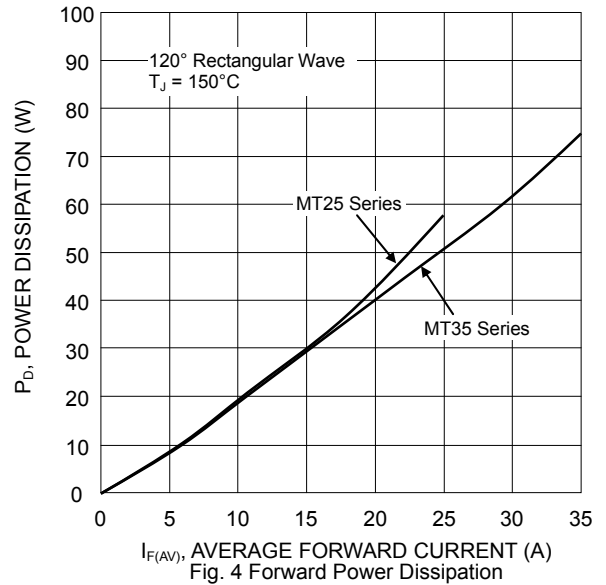
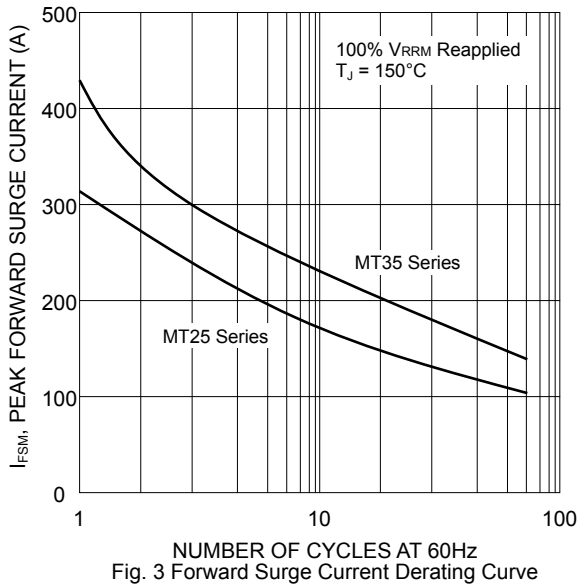
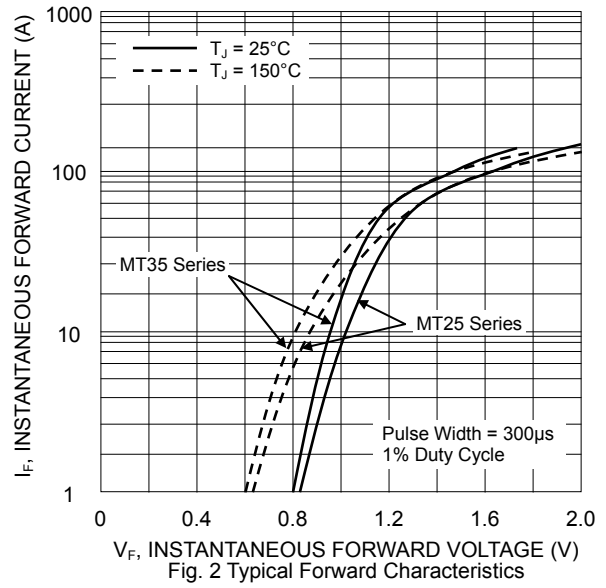
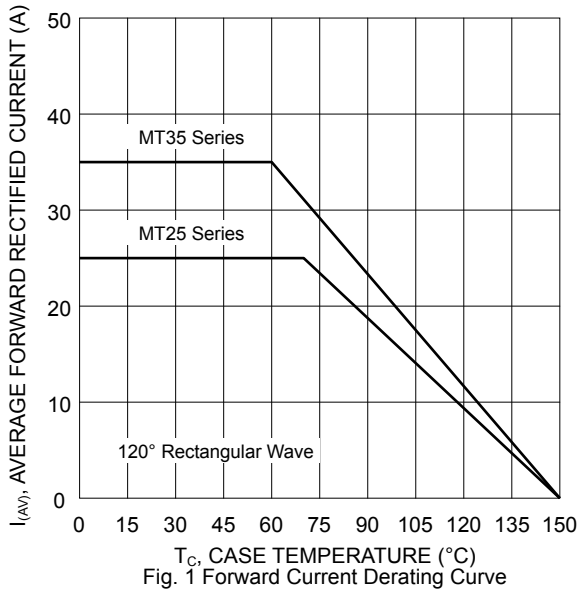


Forward Conduction

Characteristic	Symbol	MT25	MT35	Unit
Average Rectified Output Current MT25 @ $T_c = 70^\circ\text{C}$, MT35 @ $T_c = 60^\circ\text{C}$	I_o	25	35	A
Non-Repetitive Peak Forward Surge Current (No Voltage Reapplied $t = 8.3\text{ms}$ at 60Hz) (No Voltage Reapplied $t = 10\text{ms}$ at 50Hz) (100% V_{RRM} Reapplied $t = 8.3\text{ms}$ at 60Hz) (100% V_{RRM} Reapplied $t = 10\text{ms}$ at 50Hz)	I_{FSM}	375 360 314 300	500 475 420 400	A
I^2t Rating for Fusing (No Voltage Reapplied $t = 8.3\text{ms}$ at 60Hz) (No Voltage Reapplied $t = 10\text{ms}$ at 50Hz) (100% V_{RRM} Reapplied $t = 8.3\text{ms}$ at 60Hz) (100% V_{RRM} Reapplied $t = 10\text{ms}$ at 50Hz)	I^2t	580 635 410 450	1030 1130 730 800	A^2s
Maximum Forward Voltage Drop @ $T_J = 25^\circ\text{C}$, @ $I_{FM} = 40\text{A}_{pk}$ per single junction	V_F	1.26	1.19	V
Peak Reverse Current (per leg) @ $T_J = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	I_R		10 5.0	μA mA
RMS Isolation Voltage Terminals to Case, $t = 1\text{min}$	V_{iso}		2500	V

Thermal Characteristics

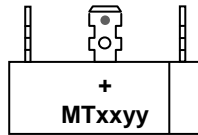
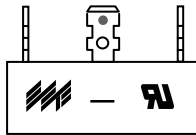
Thermal Resistance Junction to Case @ DC Operation per Bridge	R_{JC}	1.42	1.35	K/W
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	R_{CS}	0.2		K/W
Operating Temperature Range	T_J	-40 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +150		$^\circ\text{C}$



MT25, MT35 SERIES



MARKING INFORMATION



MTxxyy = Device Number
xx = 25 or 35
yy = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16
Polarity = As Marked on Body

PACKAGING INFORMATION

BULK


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

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

ORDERING INFORMATION

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

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **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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