



E502650

Features

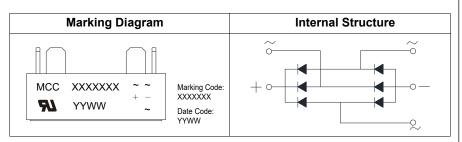
- Glass Passivated Chip Junction
- High Surge Current Capability
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Va		
Parameter	Symbol	MT3510M	MT3516M	Unit
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	1000	1600	V
DC Blocking Voltage	V_R			
RMS Reverse Voltage	V _{RMS}	700	1120	V
Average Rectified Forward Current @ T _C =100°C	I _{F(AV)}	35		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	_	4	-00	A
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	800		
I²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	664		A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5		

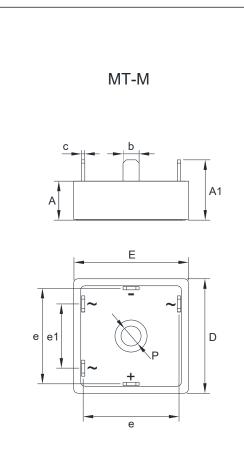
Marking Code

Part Number	Marking Code		
MT3510M	MT3510M		
MT3516M	MT3516M		



Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

35 Amp Three Phase Bridge Rectifiers 1000V to 1600 Volts



DIM	INCHES		M	NOTE	
MIN		MAX	MIN	MAX	NOIL
Α	0.354	0.394	9.00	10.00	
A1	0.571	0.610	14.50	15.50	
b	0.150	0.165	3.80	4.20	
С	0.030	0.033	0.75	0.85	
D	1.110	1.134	28.20	28.80	
E	1.110	1.134	28.20	28.80	
е	0.917	0.957	23.30	24.30	
e1	0.610	0.650	15.50	16.50	
Р	0.177	0.217	4.50	5.50	Ø



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		8.0		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient			20		°C/W

Note: 1. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

Mechanical Data

Recommend Mounting Torque: 5 kg•cm

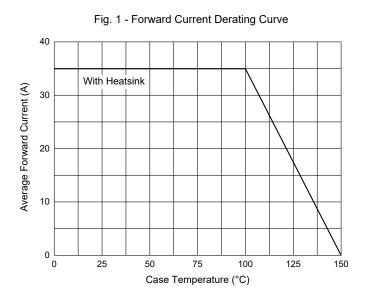
Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

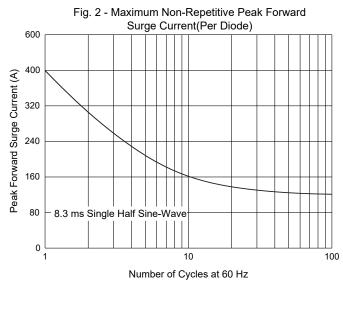
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =17.5A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 500	uA
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		150		pF

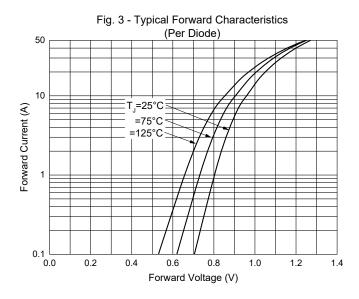
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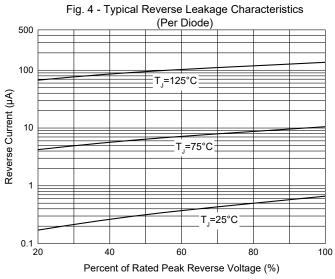


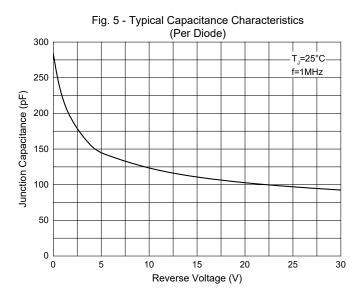
Curve Characteristics













Ordering Information

Device	Packing		
Part Number-BP	Bulk:50pcs/Box,400pcs/Carton		

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