

# MT3504A THRU MT3516A



## Typical Applications

General purpose use in AC/DC bridge full wave rectification for O C L

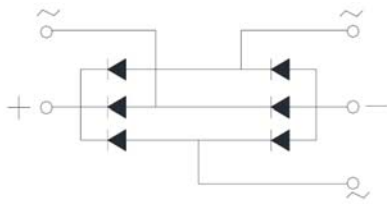
## Mechanical Data

Package: MT

Molding compound meets UL - 4 V-0 flammability rating

Terminals: Au plated leads - solderable per >-STD-002 and >ESD22-B102

Polarity: As marked on body



## Maximum Ratings (Ta 1 25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MT3504A	MT3506A	MT3508A	MT3510A	MT3512A	MT3514A	MT3516A
Device marking code			MT3504A	MT3506A	MT3508A	MT3510A	MT3512A	MT3514A	MT3516A
Maximum Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Maximum RMS Voltage	VRMS	V	280	420	560	+ 00	840	- 80	1120
Maximum DC blocking Voltage	VDC	V	400	600	800	1000	1200	1400	1600
Average rectified output current 4 60Hz sine wave - R-load	IO	A	35						
Forward Surge Current (Non-repetitive) 4 8 3ms - Half-sine wave - 1 cycle - Ta 1 25	IFSM	A	400						
Forward Surge Current (Non-repetitive) 4 1ms - square wave - 1 cycle - Ta 1 25			800						
Current squared time 4 1ms @ 8 3ms Ta 1 25	I <sup>2</sup> t	A <sup>2</sup> s	664						
Storage temperature	Tstg		-55 ~ + 150						
Junction temperature	Tj		-55 ~ + 150						
Dielectric strength 4 Terminals to case - AC 1 minute	Vdis	KV	2 5						
Mounting torque 4 Recommend torque 5kg cm	Tor	kg cm	8						

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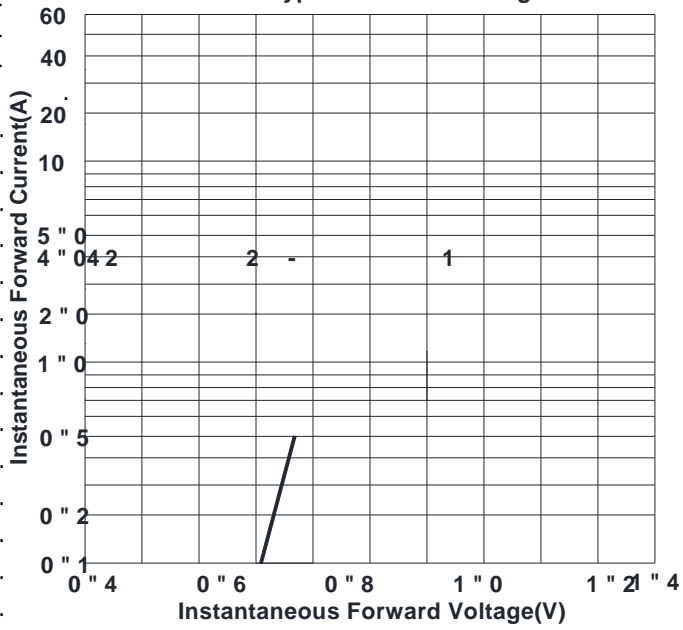
## Electrical Characteristics $T_a = 125$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT3504A	MT3506A	MT3508A	MT3510A	MT3512A	MT3514A	MT3516A	
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM} = 1.1 + I_{D(5A)}$	1.1							
Maximum DC reverse current at rated DC blocking voltage per diode	IR	A	$T = 125$	5							
			$T = 125$	500							
Typical junction capacitance	$C_j$	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0V DC	200					150		



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FIG3: Typical Forward Voltage



2 2 2

## Outline Dimensions

MT		
Dim	Min	Max
A	23 " 3	24 " 3
B	23 " 3	24 " 3
C	28 " 2	28 " 8
D	15 " 5	16 " 5
E	/	25
F	- " 0	10 " 0
G	6 " 2	6 " 4
H	0 " +5	0 " 85
I	4 " 5	5 " 5



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