

MT3504A THRU MT3516A



Typical Applications

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

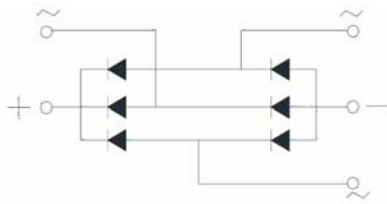
Mechanical Data

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 125 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 8ms Half-sine wave - 1 cycle - Ta 125	IFSM	A	400						
Forward Surge Current (Non-repetitive) 4 1ms square wave - 1 cycle - Ta 125			800						
Current squared time 4 1ms @ 8ms - 3ms - Ta 125	I ² t	A ² 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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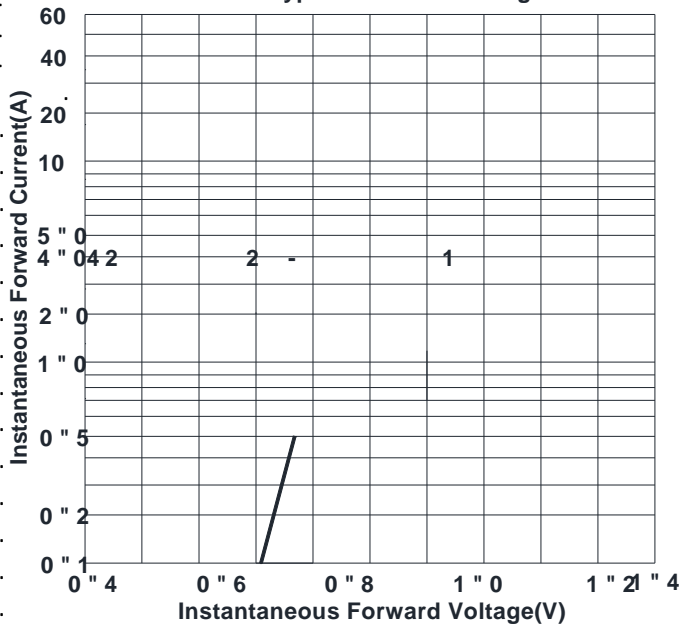
Electrical Characteristics $T_a = 125$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT3504A	MT3506A	MT3508A	MT3510A	MT3512A	MT3514A	MT3516A	
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM} = 1.1 + 0.5A$	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



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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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