

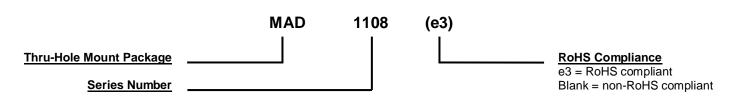
MAXIMUM RATINGS

Parameters/Test Conditions		Symbol	Value	Unit
Junction and Storage Temperature		T_J and T_{STG}	-55 to +150	°C/W
Peak Working Reverse Voltage		V_{RWM}	75	V
Repetitive Peak Forward Current (one diode)		I_{FRM}	400	mA
Forward Surge Current @	8.3 ms	I _{FSM}	2	Α
@ 8	3/20 μs		12	
Rated Average Power dissipation (total)		P _{M(AV)}	1500	mW
Solder Temperature @ 10 s		T_SP	260	°C

MECHANICAL and **PACKAGING**

- CASE: Void-free transfer molded thermosetting epoxy body meeting UL94V-0 flammability classification
- TERMINALS: Tin-lead or RoHS compliant annealed matte-tin plating solderable per MIL-STD-750 method 2026
- MARKING: MSC logo, MAD1108 or MAD1108e3 and date code. Pin #1 is to the left of the dot or indent on top of package.
- DELIVERY OPTION: Carrier tube. Consult factory for quantities
- WEIGHT: Approximately 0.997 grams
- See Package Dimensions on last page.

PART NOMENCLATURE



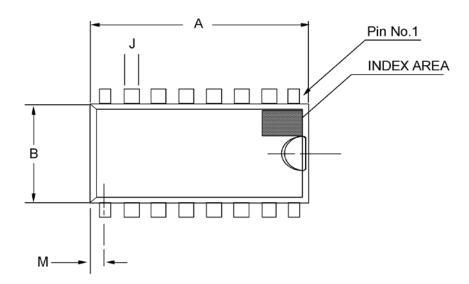
SYMBOLS & DEFINITIONS					
Symbol	Definition				
Ст	Total Capacitance: The total small signal capacitance between the diode terminals of a complete device.				
I _R	Reverse Current: The dc current flowing from the external circuit into the cathode terminal at the specified voltage V _R .				
V _(BR)	Breakdown Voltage: The voltage across the device at a specified current I _(BR) in the breakdown region.				
V _F	Forward Voltage: A positive dc anode-cathode voltage the device will exhibit at a specified forward current.				
V _{RWM}	Working Peak Reverse Voltage: The peak voltage excluding all transient voltages (ref JESD282-B). Also sometimes known historically as PIV.				

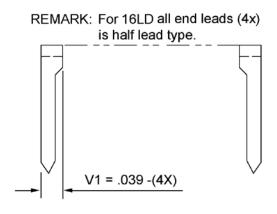
ELECTRICAL CHARACTERISTICS @ 25 °C unless otherwise stated

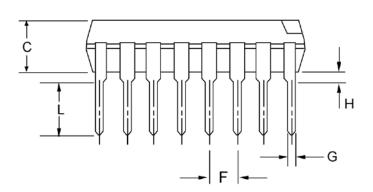
PART NUMBER	BREAKDOWN VOLTAGE V _(BR) @ I _(BR) =100 µA	LEAK CURF I	RENT R 25 °C	LEAKAGE CURRENT I _R T _A = 150 °C		TOTAL CAPACITANCE C _T @ 0 V	REVERSE RECOVERY TIME t _{rr}	FORWARD VOLTAGE V _F I _F = 10 mA	FORWARD VOLTAGE V _F I _F = 100 mA
	V	μ	A	μΑ		pF	ns	V	V
	MIN	MAX	@ V _R	MAX	@ V _R	TYP	MAX	MAX	MAX
MAD1108 MAD1108e3	90	0.200	20	300	20	1.5	5.0	1.00	1.20

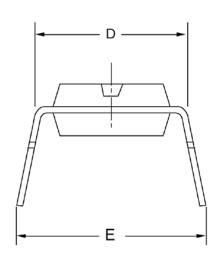


PACKAGE DIMENSIONS





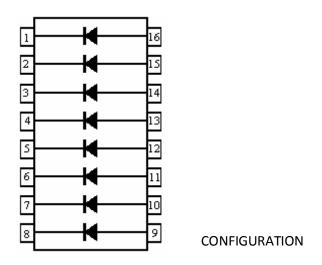


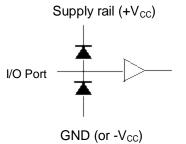


	Dimensions								
Ref.	Ir	nch	Millimeters						
	Min	Max	Min	Max					
Α	0.746	0.754	18.95	19.15					
В	0.246	0.254	6.248	6.452					
C	0.126	0.134	3.200	3.404					
D	0.300	0.325	7.619	8.255					
E	0.320	0.370	8.128	9.398					
F	0.098	0.102	2.489	2.591					
G	0.016	0.020	0.406	0.508					
Н	0.015	0.040	0.381	1.016					
7	0.058	0.062	1.473	1.575					
L	0.121	0.129	3.073	3.277					
М	0.25	REF	0.635 REF						



PAD LAYOUT





STEERING DIODE APPLICATION