



MMAD Reliability & Qualification Data

This is the reliability and qualification data for the MMAD1108. (MMAD1105, MMAD1109 by similarity).

Features

8 Diode Array
SOIC 16 Pin Surface Mount Package
UL 94V-0 Flammability Classification

Mechanical

Molded SOIC 16 Pin
Weight: 2.5 grams (approximate)
Marking: Logo, Part #, Date Code
Pin #1 Defined by DOT on top of package

Maximum Ratings

Operating Temperatures: -55° C to 150° C
Storage Temperature: -55° C to 150° C
Forward Surge Current: 2.0 Amps (8.3 mS)
Peak Reverse Voltage V_{rm} : 100 volts
Steady State Reverse Voltage V_r : 75 volts
Continuous Forward Current I_f : 400 mA
Power Dissipation (Pd) 500mW (total)
Derating Factor: 4.0 mW/° C

Packaging

Tape & Reel EIA Standard 481
13 inch reel; 2,500 pieces (optional)
Carrier Tube 50 pieces

Stress	Results
Moisture Classification	Level 1 Package - No Drypack Required
Autoclave	0/80 @ 100% Humidity @ 30 p.s.i. (96 Hours) 130° C
Temperature Cycle	0/240 @ 1000 temp. cycles (-65° C to 200° C)
High Temperature Reverse Bias	0/800 @ 125° C (1000 Hours)
Humidity	0/240 @ 85° C – 85% Humidity (1000 hours)

MMAD59

John Freeman
Director of Engineering

Bill Jones
Director of Quality Control and
Reliability Assurance

