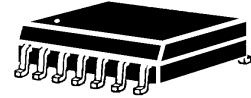




8700 E. Thomas Road
 Scottsdale, AZ 85251
 Tel: (480) 941-6300
 Fax: (480) 947-1503

MMAD1105

Switching Diode Array



FEATURES

- 8 Diode Array Common Cathode
- SOIC 14 pin Surface Mount Package
- UL 94V-0 Flammability Classification

MECHANICAL

- Molded SOIC 14 Pin
- Weight: 0.127 grams (approximate)
- Marking: Logo, device number, date code
- Pin #1 defined by DOT on top of package

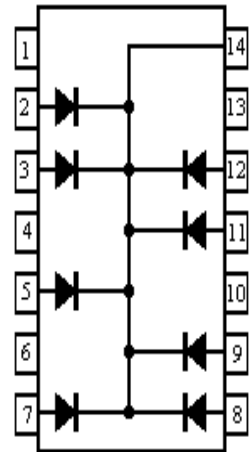
MAXIMUM RATINGS

- Operating Temperatures: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Forward Surge Current: 2.0 Amps (8.3 mS)
- Minimum Breakdown Voltage $V_{(BR)}$: 90V
- Working Peak Reverse Voltage V_{RWM} : 75V
- Continuous forward current I_F : 400 mA
- Power dissipation (P_D): 500 mW
- Derating factor: 4.0 mW/°C

PACKAGING

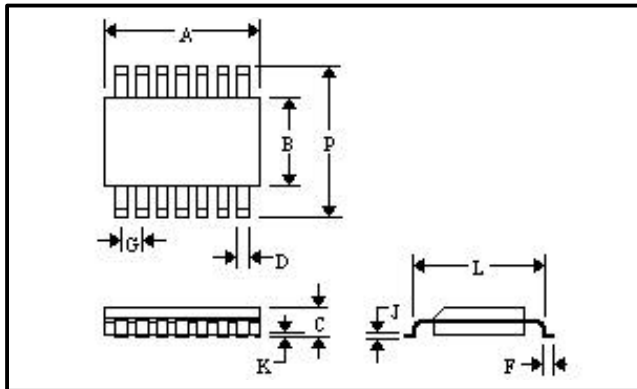
- Tape & Reel EIA Standard 481
- 13 inch reel 2,500 pieces (OPTIONAL)
- Carrier tube 55 pcs per (STANDARD)

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS @ 25°C Unless otherwise specified

| Part Number | $V_{(BR)}$ @100 μ A | V_{RWM} | I_R +25°C | | I_R +150°C | | CAP @0V | V_F @ $I_f = 10$ mA | V_F @ $I_f = 100$ mA |
|-------------|----------------------------|-----------|----------------|---------|-----------------|---------|------------|--------------------------|---------------------------|
| | V | V | MAX | @ V_R | MAX | @ V_R | pF | V | V |
| MMAD1105 | 90 | 75 | .200 | 20 | .300 | 20 | 4.0 | 1.00 | 1.20 |



| DIM | INCHES | | MILLIMETERS | |
|-----|-----------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.336 | 0.344 | 8.53 | 8.74 |
| B | 0.150 | 0.158 | 3.81 | 4.01 |
| C | 0.053 | 0.069 | 1.35 | 1.75 |
| D | 0.011 | 0.021 | 0.28 | 0.53 |
| F | 0.016 | 0.050 | 0.41 | 1.27 |
| G | 0.050 BSC | | 1.27 BSC | |
| J | 0.006 | 0.010 | 0.15 | 0.25 |
| K | 0.004 | 0.010 | 0.10 | 0.20 |
| L | 0.189 | 0.206 | 4.80 | 5.23 |
| P | 0.228 | 0.244 | 5.79 | 6.19 |