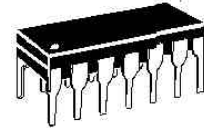




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# MAD130

## Switching Diode Array



### FEATURES

- Dual 10 Diode Array
- Standard 14 pin Dual-In-Line Package
- UL 94V-0 Flammability Classification

### MECHANICAL

- Molded 14 Pin Dip
- Weight: 2.5 grams (approximate)
- Marking: Logo, device number, date code
- Pin #1 defined by DOT on top of package

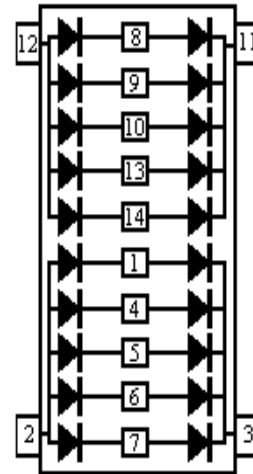
### MAXIMUM RATINGS

- 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

- Carrier tube 25 pcs per (STANDARD)

### CIRCUIT DIAGRAM



### ELECTRICAL CHARACTERISTICS @ 25°C Unless otherwise specified

| Part Number | $V_{(BR)}$<br>@100 $\mu$ A<br>V | $V_{RWM}$<br>V | $I_R$<br>+25°C<br>$\mu$ A |         | $I_R$<br>+150°C<br>$\mu$ A |         | CAP<br>@0V<br>pF | $t_{rr}$<br>(nS) | $V_F$<br>@ $I_f = 10$ mA<br>V | $V_F$<br>@ $I_f = 100$ mA<br>V |
|-------------|---------------------------------|----------------|---------------------------|---------|----------------------------|---------|------------------|------------------|-------------------------------|--------------------------------|
|             | MIN                             | MAX            | MAX                       | @ $V_R$ | MAX                        | @ $V_R$ | MAX              | MAX              | MAX                           | MAX                            |
| MAD130      | 90                              | 75             | .025                      | 20      | 50                         | 20      | 4.0              | 5.0              | 1.00                          | 1.20                           |

