

# DIODE ARRAY PRODUCT SPECIFICATION

# MONOLITHIC AIR ISOLATED DIODE ARRAY

## FEATURES:

- QUALIFIED PARTS LISTING: MIL-PRF-19500/474
- $B_v > 60V$  at  $10\mu A$
- $I_r < 100nA$  at  $40V$
- $C < 8.0 pF$

### Absolute Maximum Ratings:

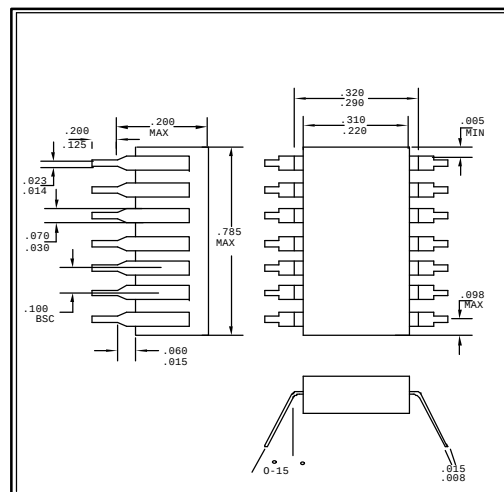
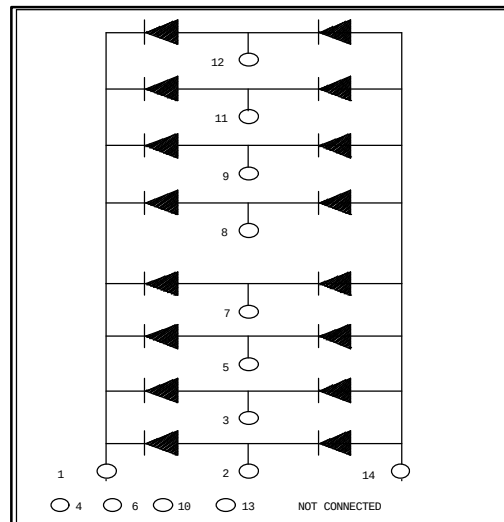
| Symbol       | Parameter                             | Limit       | Unit |
|--------------|---------------------------------------|-------------|------|
| VBR(R) *1 *2 | Reverse Breakdown Voltage             | 60          | Vdc  |
| IO *1 *3     | Continuous Forward Current            | 300         | mAdc |
| IFSM *1      | Peak Surge Current (tp= 1/120 s)      | 500         | mAdc |
| PT1 *4       | Power Dissipation per Junction @ 25°C | 400         | mW   |
| PT2 *4       | Power Dissipation per Package @ 25°C  | 600         | mW   |
| Top          | Operating Junction Temperature Range  | -65 to +150 | °C   |
| Tstg         | Storage Temperature Range             | -65 to +200 | °C   |

**NOTE 1:** Each Diode

NOTE 2: Pulsed: PW = 100ms max.; duty cycle  $\leq 20\%$

NOTE 3: Derate at 2.4mA/°C above +25 °C

NOTE 4: Derate at 4.0mW/°C above +25 °C



### Electrical Characteristics (Per Diode) @ 25°C unless otherwise specified

## PACKAGE OUTLINE

| Symbol          | Parameter                | Conditions                                                                                                   | Min | Max | Unit             |
|-----------------|--------------------------|--------------------------------------------------------------------------------------------------------------|-----|-----|------------------|
| Vf1             | Forward Voltage          | If = 100mA <sub>dc</sub> *1                                                                                  |     | 1   | V <sub>dc</sub>  |
| Vf2             | Forward Voltage          | If = 500mA <sub>dc</sub> *1                                                                                  |     | 1.5 | V <sub>dc</sub>  |
| IR1             | Reverse Current          | V <sub>R</sub> = 40 V <sub>dc</sub>                                                                          |     | 0.1 | μA <sub>dc</sub> |
| C <sub>t</sub>  | Capacitance (pin to pin) | V <sub>R</sub> = 0 V <sub>dc</sub> ; f = 1MHz                                                                |     | 8.0 | pF               |
| t <sub>fr</sub> | Forward Recovery Time    | If = 500mA <sub>dc</sub>                                                                                     |     | 40  | ns               |
| t <sub>rr</sub> | Reverse Recovery Time    | If = I <sub>R</sub> = 200mA <sub>dc</sub> , i <sub>rr</sub> = 20mA <sub>dc</sub> , R <sub>L</sub> = 100 ohms |     | 20  | ns               |

NOTE 1: Pulsed: PW = 300us +/- 50us, duty cycle ≤ 2%, 90us after leading edge

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