

DIODE ARRAY PRODUCT SPECIFICATION

MONOLITHIC AIR ISOLATED DIODE ARRAY

FEATURES:

- HERMETIC CERAMIC PACKAGE
- $B_v > 75V$ at 5uA
- $I_r < 100nA$ at 40V
- $C < 4.0 pF$

Absolute Maximum Ratings:

| Symbol | Parameter | Limit | Unit |
|--------------|---------------------------------------|-------------|------|
| VBR(R) *1 *2 | Reverse Breakdown Voltage | 75 | 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 | 500 | 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

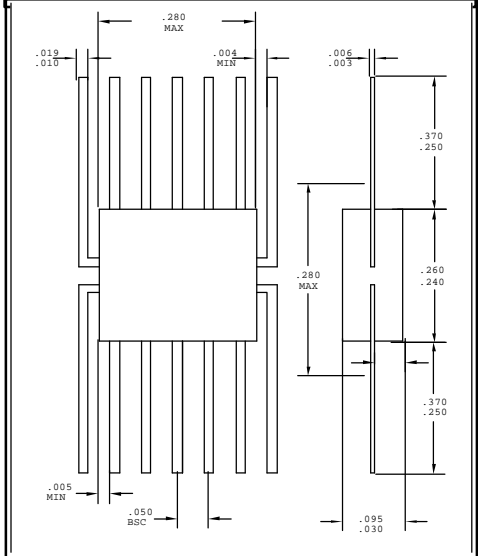
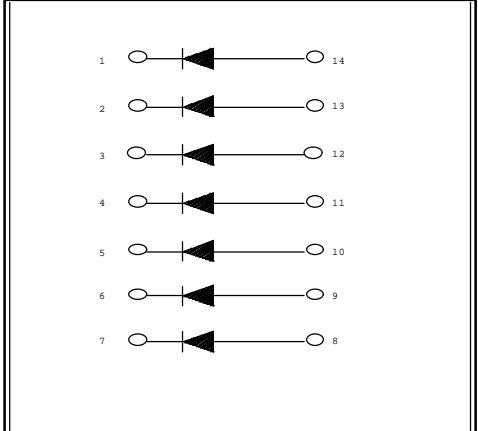
NOTE 4: Derate at 4.0mW/°C above +25 °C

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

| Symbol | Parameter | Conditions | Min | Max | Unit |
|--------|--------------------------|---|-----|-----|------|
| Vf1 | Forward Voltage | If = 100mAdc *1 | | 1 | Vdc |
| IR1 | Reverse Current | VR = 40 Vdc | | 0.1 | uAdc |
| IR2 | Reverse Current | VR = 20 Vdc | | 25 | nAdc |
| Ct | Capacitance (pin to pin) | VR = 0 Vdc; f = 1MHz | | 4.0 | pF |
| tfr | Forward Recovery Time | If = 100mAdc | | 15 | ns |
| trr | Reverse Recovery Time | If = IR = 10mAdc, irr = 1 mAdc, RL = 100 ohms | | 10 | ns |
| VF5 | Forward Voltage Match | If = 10 mA | | 5 | mV |

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

Sertech reserves the right to make changes to any product design, specification or other information at any time without prior notice.



PACKAGE OUTLINE