

## DIODE ARRAY PRODUCT SPECIFICATION

### MONOLITHIC AIR ISOLATED DIODE ARRAY

#### FEATURES:

- QUALIFIED PARTS LISTING: MIL-PRF-19500/474
- $V_b > 75V$  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

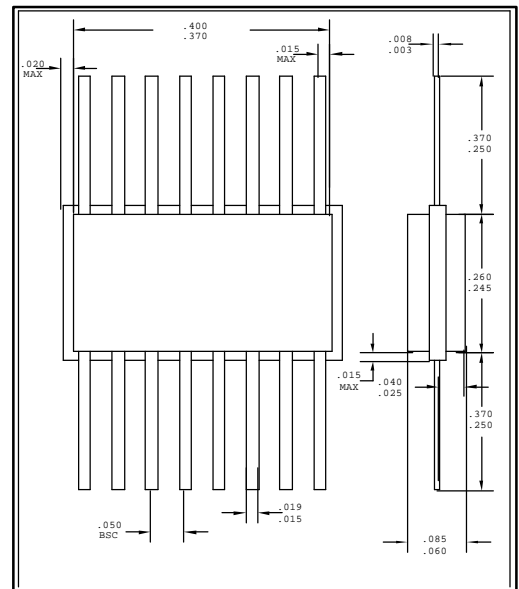
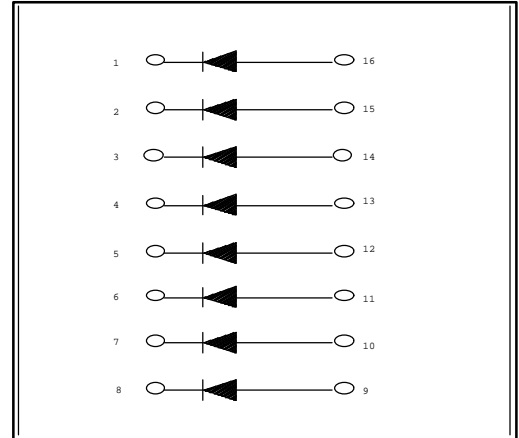
NOTE 4: Derate at 4.0mW/°C above +25 °C

#### 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 = 1 MHz		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