

## DIODE ARRAY PRODUCT SPECIFICATION

### MONOLITHIC AIR ISOLATED DIODE ARRAY

#### FEATURES:

- HERMETIC CERAMIC PACKAGE
- $B_v > 60V$  at  $10\mu A$
- $I_r < 100nA$  at  $40V$
- $C < 4.0$  pF

#### Absolute Maximum Ratings:

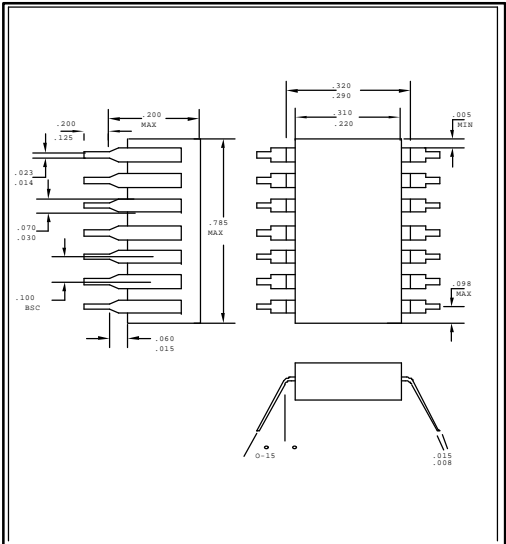
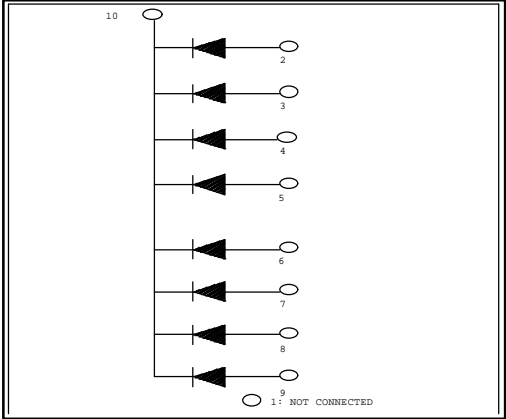
Symbol	Parameter	Limit	Unit
VBR(R)*1 *2	Reverse Breakdown Voltage	60	Vdc
IO *1 *3	Continuous Forward Current	300	mAdc
IFSM *1	Peak Surge Current ( $t_p = 1/120$ s)	500	mAdc
PT1 *4	Power Dissipation per Junction @ 25°C	400	mW
PT2 *4	Power Dissipation per Package @ 25°C	600	mW
Top	Operating Junction Temperature 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	$I_f = 100mA_{dc}$ *1		1	Vdc
Vf2	Forward Voltage	$I_f = 500mA_{dc}$ *1		1.5	Vdc
IR1	Reverse Current	$V_R = 40$ Vdc		0.1	$\mu A_{dc}$
Ct	Capacitance (pin to pin)	$V_R = 0V_{dc}$ ; $f = 1$ MHz		4.0	pF
tfr	Forward Recovery Time	$I_f = 500mA_{dc}$		40	ns
trr	Reverse Recovery Time	$I_f = I_R = 200mA_{dc}$ , $i_{rr} = 20mA_{dc}$ , $R_L = 100$ ohms		20	ns

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.