

DIODE ARRAY PRODUCT SPECIFICATION

MONOLITHIC AIR ISOLATED DIODE ARRAY

FEATURES:

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

Absolute Maximum Ratings:

Symbol	Parameter	Limit	Unit
VBR(R) *1 *2	Reverse Breakdown Voltage	75	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 @ $25^\circ C$	400	mW
PT2 *4	Power Dissipation per Package @ $25^\circ C$	600	mW
Top	Operating Junction Temperature Range	-65 to +150	$^\circ C$
Tstg	Storage Temperature Range	-65 to +200	$^\circ C$

NOTE 1: Each Diode

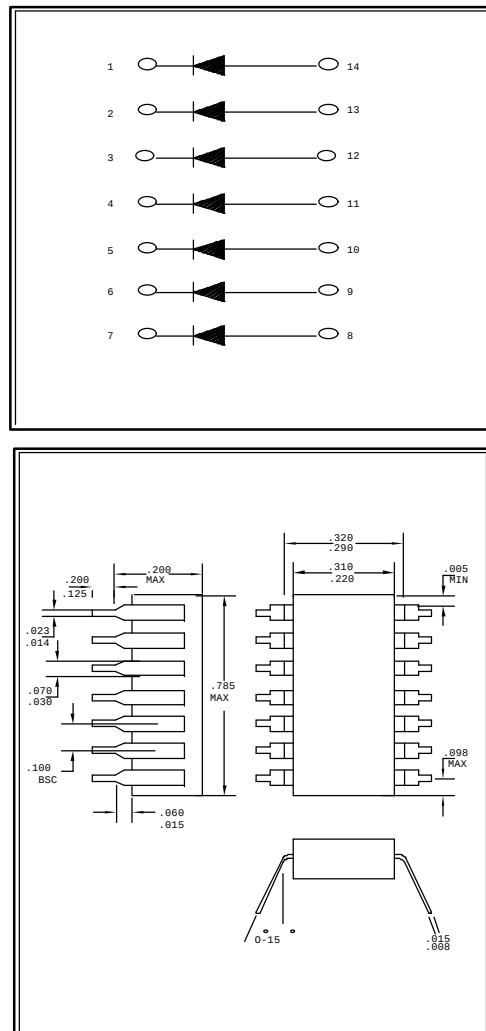
NOTE 2: Pulsed: $PW = 100ms$ max.; duty cycle $\leq 20\%$

NOTE 3: Derate at $2.4mW/^\circ C$ above $+25^\circ C$

NOTE 4: Derate at $4.0mW/^\circ C$ above $+25^\circ C$

Electrical Characteristics (Per Diode) @ $25^\circ C$ unless otherwise specified

PACKAGE OUTLINE



Symbol	Parameter	Conditions	Min	Max	Unit
Vf1	Forward Voltage	$I_f = 100mAdc$ *1		1	Vdc
IR1	Reverse Current	$V_R = 40 Vdc$		0.1	μAdc
IR2	Reverse Current	$V_R = 20 Vdc$		25	nAdc
Ct	Capacitance (pin to pin)	$V_R = 0 Vdc$; $f = 1 MHz$		4.0	pF
tfr	Forward Recovery Time	$I_f = 100mAdc$		15	ns
trr	Reverse Recovery Time	$I_f = I_R = 10mAdc$, $i_{rr} = 1 mAdc$, $R_L = 100 ohms$		10	ns
VF5	Forward Voltage Match	$I_f = 10 mA$		5	mV

NOTE 1: Pulsed: $PW = 300\mu s \pm 50\mu s$, duty cycle $\leq 2\%$, $90\mu s$ after leading edge

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