

TECHNICAL DATA
DATASHEET 5324, Rev B.1

Diode Array

- **Devices are serialized**
- **Sixteen 1N5806 diodes in surface mount package**
- **Die manufactured on qualified JANS line**
- **Built and screened to space level quality (SDA1001SS)**
- **Space quality level conformance testing is performed on each lot (SDA1001SS)**
- **Add suffix "S" for screening per MIL-PRF-38534, Class H (SDA1001S)**
- **Add suffix "SS" for Space Level Screening per MIL-PRF-38534, Class K (SDA1001SS)**

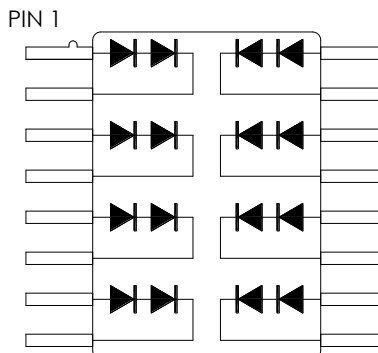
MAX. RATINGS / ELECTRICAL CHARACTERISTICS All rating at are $T_A = 25^{\circ}\text{C}$ unless otherwise specified

RATING	SYMBOL	MAX	UNIT
Peak Inverse Voltage (DC)	PIV	300	V
Average DC Output Current per leg * $T_A = 55^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	I_o	1.0 0.75	A
Peak Single Cycle Surge Current per leg ** ($T_p=8.3\text{ms}$ single half-Sine wave)	I_{fsm}	10	A
Max. Operating Junction Temperature	T_J	-55 to +150	$^{\circ}\text{C}$
Max. Operating Ambient Temperature	T_{OP}	-30 to 100	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-65 to +175	$^{\circ}\text{C}$
Maximum forward voltage @ 1A	V_f	2.0	V
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	1 50	μA
Max. Reverse Recovery Time $I_F = 0.5\text{ A}$, $I_{R} = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$	t_{rr}	25	ns
Thermal Resistance Junction to Case	θ_{JC}	13	$^{\circ}\text{C}/\text{W}$

Note * - Total current is package dissipation limited to 3A

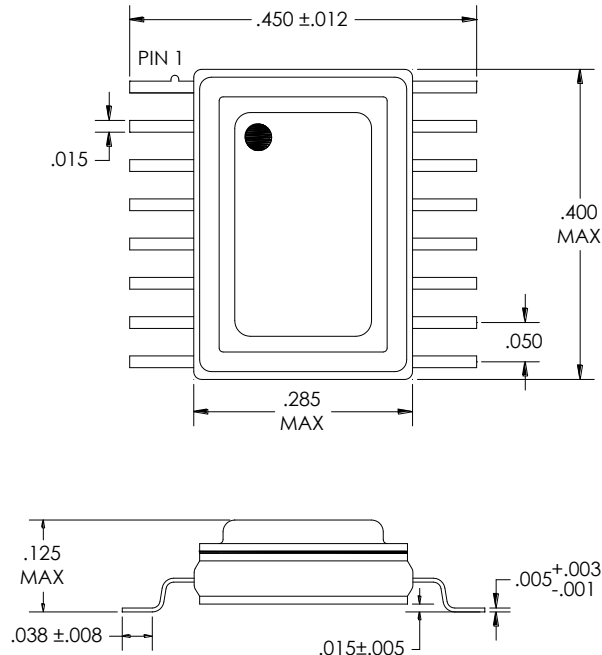
Note ** - Surge rating is limited by package wirebond

Electrical Schematic



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Mechanical Outline



PART ORDERING INFORMATION

Part Number	Sensitron Screening Level	Screened In Accordance to:
SDA1001S	S	MIL-PRF-38534, Class H
SDA1001SS	SS	MIL-PRF-38534, Class K

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