TECHNICAL DATA DATA SHEET 5482, REV.

Diode Array

- Devices Are Serialized
- Eight sets of double diodes in a single package
- Die manufactured on qualified JANS line
- Built and screened to space level quality (SDA1009SS)
- Quality Conformance Inspection (QCI) in accordance with MIL-PRF-38534 is performed on each lot (SDA1009SS)
- Add suffix "S" for screening per MIL-PRF-38534, Class H (SDA1009S)
- Add suffix "SS" for Space Level Screening per MIL-PRF-38534, Class K (SDA1009SS)
- Each diode similar to JANS1N5615

MAX. RATINGS / ELECTRICAL CHARACTERISTICS FOR EACH DIODE

All rating at are $T_A = 25^{\circ}C$ unless otherwise specified

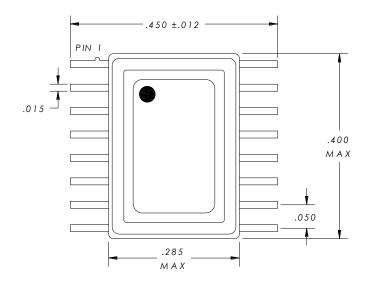
RATING	SYMBOL	MAX	UNIT
Peak Inverse Voltage (DC)	PIV	400	V
Average DC Output Current Per Diode $T_A = 55^{\circ}C$ $T_A = 100^{\circ}C$	I _o	1 0.75	А
Peak Single Cycle Surge Current (1) (T _P =8.3ms single half-Sine wave)	I _{FSM}	10	А
Steady State Power Dissipation per Package (2)	P_T	1000	mW
Max. Operating Junction Temperature	T _J	-55 to +150	°C
Max. Operating Ambient Temperature	T_OP	-30 to 100	°C
Storage Temperature Range	T_{STG}	-65 to +175	°C
Maximum forward voltage @ 3.0A Tp = 300µs; 2% duty cycle	V_{f}	3.2	V
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	0.5 25	μΑ
Max. Reverse Recovery Time $I_F = 0.5 \text{ A}$, $I_R = 1.0 \text{A}$, $I_{RR} = 0.25 \text{A}$	t _{rr}	150	ns
Max. Capacitance f= 1MHz, V _R = 12V	Ст	30	pF
Thermal Resistance Junction to Case	$\theta_{\sf JC}$	21	°C/W

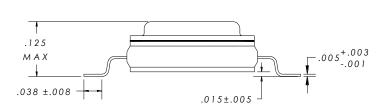
Note: (1) Each diode

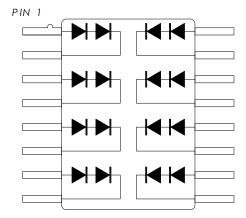
(2) Derate at 8mW/°C above 25°C

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Mechanical Outline







Electrical Schematic

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