

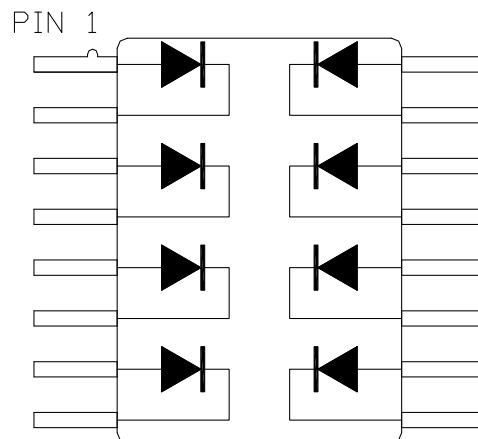
TECHNICAL DATA  
PART NUMBER: SCP-4644

## Diode Array

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

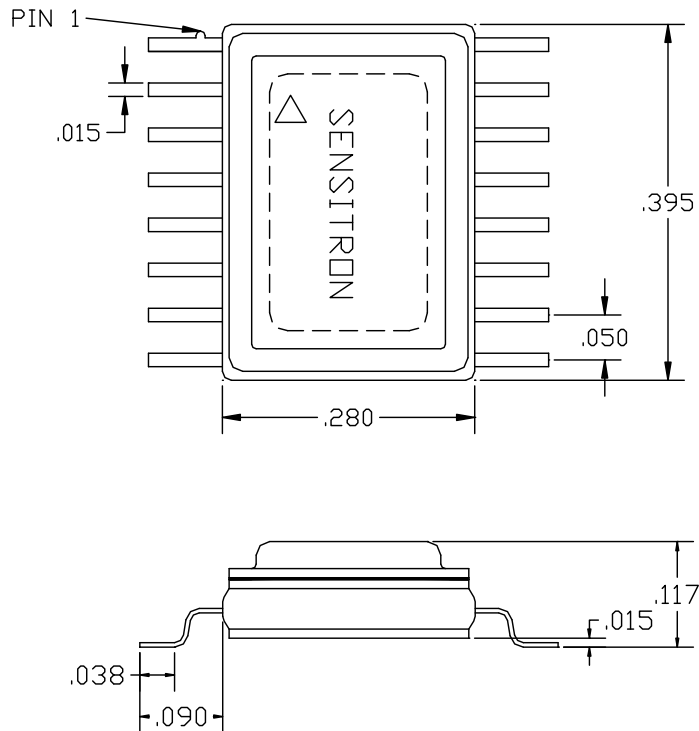
RATING	SYMBOL	MAX	UNIT
Peak Inverse Voltage (DC)	PIV	200	Volt
Average DC Output Current $T_A = 55^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	$I_o$	1.0 0.75	Amps
Peak Single Cycle Surge Current ( $T_p=8.3\text{ms}$ single half-Sine wave superimposed on rated load)	$I_{fsm}$	13	Amps
Max. Operating Junction Temperature	$T_{op}$	+150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-65 to +200	$^{\circ}\text{C}$
Maximum forward voltage @3.0A	$V_f$	1.6	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	0.5 25	$\mu\text{Amp}$
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
Thermal Resistance Junction to Case	$\theta_{JC}$	21	$^{\circ}\text{C/W}$

## Electrical Schematic



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## Mechanical Outline



- ❖ **Devices Are Serialized**
- ❖ **Built And Screened To Space Level Quality**
- ❖ **Space Quality Level Conformance Testing Is Performed On Each Lot**

**-- Contact Sensitron for your Space Level Diode Arrays requirements --**