

Part Number: SCP-5888, Rev. –

## HV BRIDGE RECTIFIER STACK: 1A 15000V MODULE

**Features**

- Ideal for HV Power Supply Application
- Excellent Thermal Performance Design
- Isolated base plate: 15KV dc
- Low Mechanical Stress Design
- Contact Factory for Screening options

**MAXIMUM RATINGS**

(T<sub>j</sub>=25°C UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Peak Inverse Voltage and DC Blocking Voltage Per Diode	BV <sub>CES</sub>	3300	-	-	V
Average Rectified Forward Current Per Diode T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	I <sub>O</sub>	-	-	1 0.2	A A
Peak Surge Current Per Diode	I <sub>FSM</sub>	-	-	25	A
Operating Temperature Range	T <sub>OP</sub>	- 65	-	150	°C

**ELECTRICAL CHARACTERISTICS**

(T<sub>j</sub>=25°C UNLESS OTHERWISE SPECIFIED)

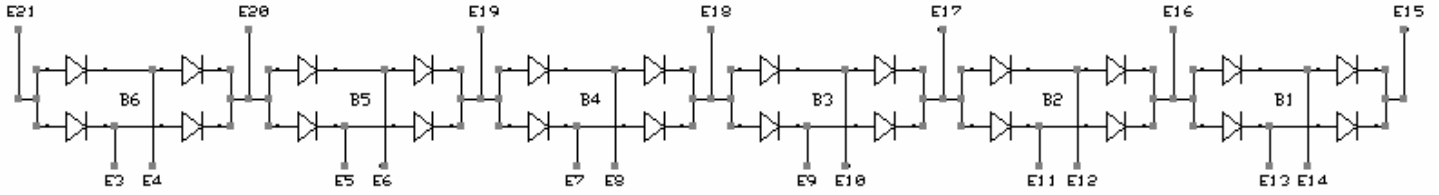
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage I <sub>F</sub> = 1A, t <sub>p</sub> = 300 μs Pulse	V <sub>F1</sub>	-	-	7.5	V
Reverse Leakage Current T <sub>C</sub> = 25 °C V <sub>R</sub> = 2500V	I <sub>R1</sub>	-	-	1.0	μA
Reverse Leakage Current T <sub>C</sub> = 100 °C V <sub>R</sub> = 2500V	I <sub>R2</sub>	-	-	50	μA
Breakdown Voltage I <sub>R</sub> = 100 μA	B <sub>VR</sub>	3300	-	-	V
Reverse Recovery Time I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A , I <sub>RR</sub> = 0.25A	t <sub>RR</sub>	-	-	60	ns
Capacitance per Diode V <sub>R</sub> = 6V	C <sub>T</sub>	-	-	60	pF

**PACKAGE CHARACTERISTICS**

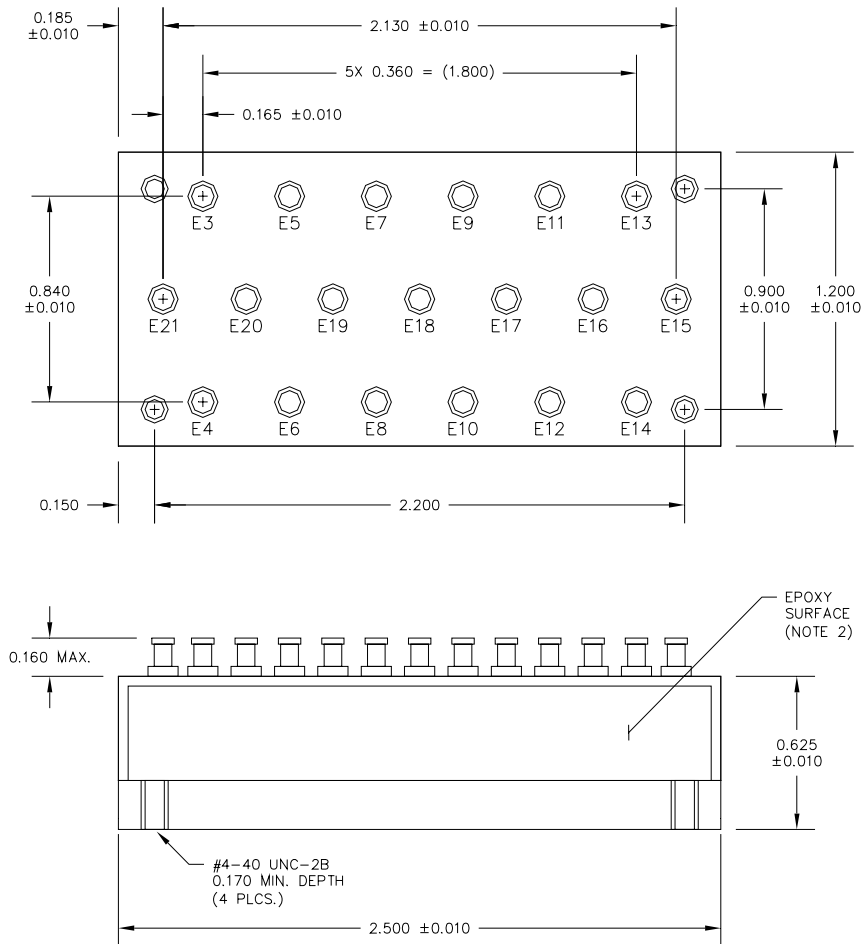
Thermal Resistance (Junction to Base)	R <sub>θJB</sub>	-	-	2.5	°C/W
Insulation Resistance: All Terminals to Base @ 15000V	R <sub>INSUL</sub>	10	-	-	GΩ
Storage Temperature Range	T <sub>STG</sub>	- 65	-	150	°C
Isolation to Base Plate	V <sub>iso</sub>	-	-	15000	V

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**Schematic Diagram:**



**Mechanical Outline:**



- NOTES:**  
 1) DIMENSIONS UNLESS OTHERWISE NOTED ARE IN INCHES.  
 2) POTTING SURFACE UNCONTROLLED.

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