Part Number: SCP-5887, Rev. –

HV BRIDGE RECTIFIER STACK: 1A 9300V 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 **(Tj=25^{0}C UNLESS OTHERWISE SPECIFIED)**

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Peak Inverse Voltage and DC Blocking Voltage Per Diode	BV_{CES}	3300	-	-	V
BR1		1200	-	-	V
BR2 – BR6					
Average Rectified Forward Current Per Diode T_C = 25 ^{O}C	I_O	-	-	1	A
T_C = 100 ^{O}C				0.2	A
Peak Surge Current Per Diode	I_{FSM}	-	-	25	A
Operating Temperature Range	T_{OP}	- 65	-	175	^{O}C

ELECTRICAL CHARACTERISTICS **(Tj=25^{0}C UNLESS OTHERWISE SPECIFIED)**

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage I_F =1A, t_P = 300 µs Pulse	V_{F1}	-	-	7.5	V
BR1		-	-	2.5	V
BR2 – BR6					
Reverse Leakage Current T_C = 25 ^{O}C	I_{R1}	-	-	1.0	µA
BR1: V_R = 2500V					
BR2 – BR6: V_R = 1000V		-	-	1.0	µA
Reverse Leakage Current T_C = 100 ^{O}C	I_{R2}	-	-	50	µA
BR1: V_R = 2500V					
BR2 – BR6: V_R = 1000V		-	-	50	µA
Breakdown Voltage I_R = 100 µA	B_{VR}	3300	-	-	V
BR1		1200	-	-	V
BR2 – BR6					
Reverse Recovery Time I_F = 0.5A, I_R = 1.0A , I_{RR} = 0.25A	t_{RR}	-	-	60	ns
Capacitance per Diode V_R = 6V	C_T	-	-	20	pF
BR1		-	-	60	pF
BR2 – BR6					

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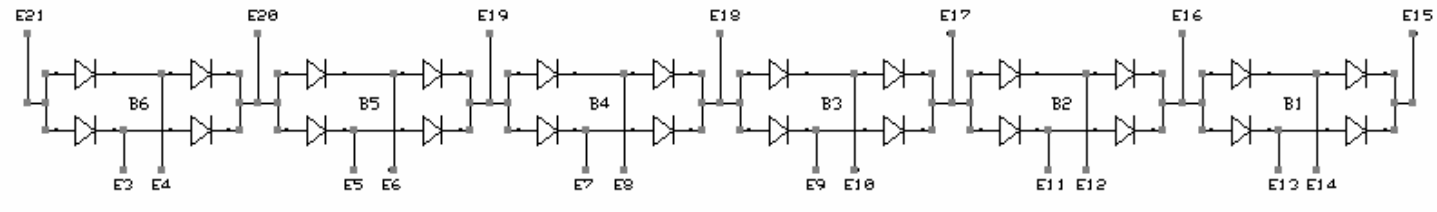
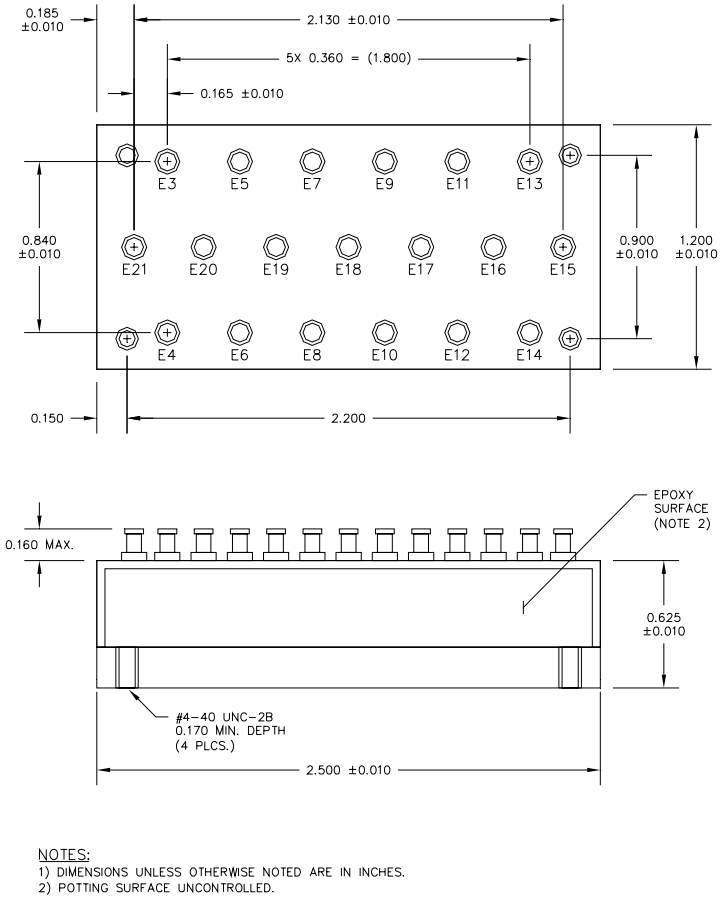
PACKAGE CHARACTERISTICS

Thermal Resistance (Junction to Base)	$R_{\theta JB}$	-	-	2.5	$^{O}C/W$
Insulation Resistance: All Terminals to Base @ 15000V	R_{INSUL}	10	-	-	GΩ
Storage Temperature Range	T_{STG}	- 65	-	175	^{O}C
Isolation to Base Plate	V_{iso}	-	-	15000	V

Schematic Diagram:



Mechanical Outline:



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

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