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

(Tj=25°C UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Peak Inverse Voltage and DC Blocking Voltage Per Diode	BV _{CES}	3300	-	-	V
Average Rectified Forward Current Per Diode T_C = 25 $^{\circ}C$ T_C = 100 $^{\circ}C$	Io	-	-	1 0.2	A A
Peak Surge Current Per Diode	I _{FSM}	-	-	25	Α
Operating Temperature Range	T _{OP}	- 65	-	150	°C

ELECTRICAL CHARACTERISTICS

(Tj=25°C UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage I_F =1A, t_P = 300 μ s Pulse	V _{F1}	-	-	7.5	V
Reverse Leakage Current $T_C = 25$ °C $V_R = 2500V$	I _{R1}	-	-	1.0	μΑ
Reverse Leakage Current $T_C = 100^{\circ}C$ $V_R = 2500V$	I _{R2}	-	-	50	μΑ
Breakdown Voltage I _R = 100 μA	B _{VR}	3300	-	-	V
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	Ст	-	-	60	pF

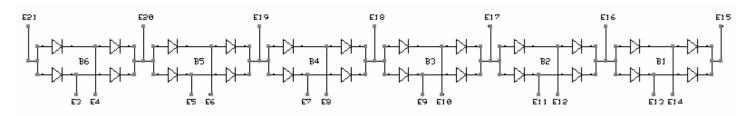
PACKAGE CHARACTERISTICS

Thermal Resistance (Junction to Base)	R _{eJB}	-	-	2.5	°C/W
Insulation Resistance: All Terminals to Base @ 15000V	R _{INSUL}	10	-	-	GΩ
Storage Temperature Range	T _{STG}	- 65	-	150	°С
Isolation to Base Plate	V _{iso}	-	-	15000	V

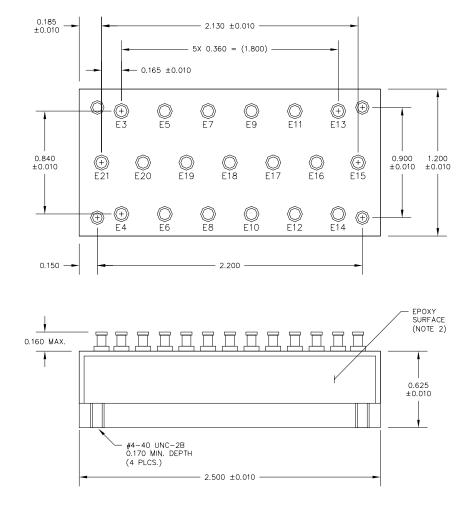
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Schematic Diagram:



Mechanical Outline:



NOTES:

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

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