SCP-5888

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 $T_{\rm C}$ = 25 $^{\rm O}$ C $T_{\rm C}$ = 100 $^{\rm O}$ C	lo	-	1	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 $T_C = 25$ $^{\circ}C$ $V_R = 2500V$	I _{R1}	-	-	1.0	μΑ
Reverse Leakage Current $T_C = 100^{\circ}C$ $V_R = 2500V$	I _{R2}	-	-	50	μА
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

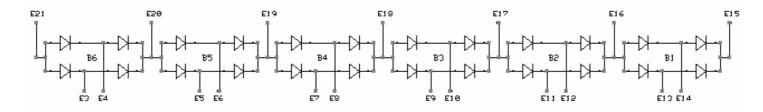
Thermal Resistance (Junction to Base)	R _{0JB}	-	-	2.5	°C/W
Insulation Resistance: All Terminals to Base @ 15000V	R _{INSUL}	10	-	-	GΩ
Storage Temperature Range	T _{STG}	- 65	-	150	°С
Isolation to Base Plate	V _{iso}	-	-	15000	V

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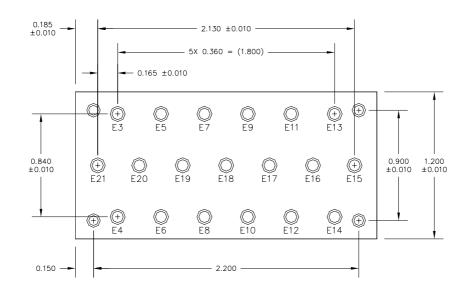
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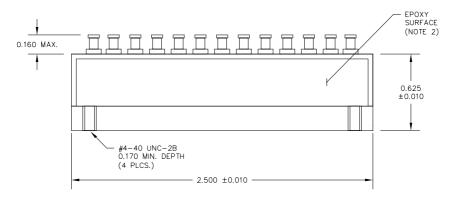
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Schematic Diagram:



Mechanical Outline:





NOTES:

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

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