



Solid State Devices, Inc.

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SPX2094 Series

**30 nsec
 15,000 VOLTS
 HIGH VOLTAGE
 RECTIFIER BRIDGE STACK**

- FEATURES:**
- Aerospace High Voltage Power Supply Applications
 - Low Mechanical Stress Design
 - Excellent Thermal Management- 2.5°C/W
 - TX, TXV, and Space Level Screening Available
- Consult Factory For:**
- Higher Blocking Voltages
 - Faster Switching Time
 - Other Electrical Configurations

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SPX2094-

Finish
 — = Standard Case
 SAB = Sand Blasted Case

Screening ^{2/}
 — = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

Dash Number ^{3/}

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage (Module)	$V_{R(MODULE)}^{3/}$	15,000	V
Peak Repetitive Reverse and DC Blocking Voltage (Each Bridge)	V_R	2700	Volts
Average Rectified Forward Current (Non-Repetitive, t = 8.3 msec Pulse)	I_O	1	Amps
Peak Surge Current (Non-Repetitive, t = 8.3 msec Pulse, TA = 25°C)	I_{FSM}	25	Amps
Storage & Operating Temperature Range	$T_{OP} \& T_{STG}$	-65 to +150	°C
Thermal Resistance, Junction to Base	θ_{JB}	2.5	°C/W

Notes:

- ^{1/} For ordering information, price, and availability- Contact Factory.
^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.
^{3/} For each dash number, refer to $V_{R(MODULE)}$ rating, schematic, and outline.

ASPM



