TECHNICAL DATA DATA SHEET 5486, REV. D

HIGH VOLTAGE BRIDGE STACK

DESCRIPTION: 15,000 VOLT, 1 AMP, 60 NANOSECOND HIGH VOLTAGE MULTIPLIER.

FEATURES:

- Low thermal resistance
- Add suffix "HV" for screening per Sensitron HV Stack Screening Flow, HV-200 (SHVB0115THV)
- Compact low stress package

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at T_A = 25°C unless otherwise specified.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (module)	PIV	15	kV
PEAK REPETITIVE REVERSE VOLTAGE (each bridge)	V_R	3300	V
AVERAGE RECTIFIED FORWARD CURRENT	lo	1	Amps
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT (t = 8.3 msec, pulse) T_{C} = 25 °C (Note 1)	IFSM	25	Amps
MAXIMUM OPERATING TEMPERATURE RANGE	Top & Tstg	-65 to +150	°C
MAXIMUM THERMAL RESISTANCE, Junction to Case	R _в ус	2.5	°C/W

ELECTRICAL CHARACTERISTICS

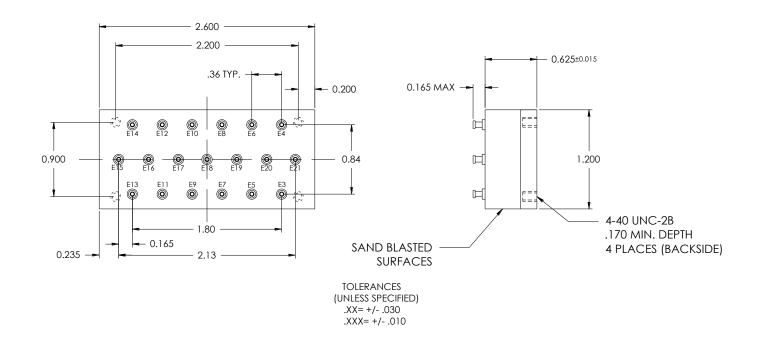
All ratings are at $T_A = 25$ °C unless otherwise specified.

CHARACTERISTIC, Each Bridge Leg	Min	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP ($I_f = 1.0 \text{ A per leg}$) $V_f T_J = 25^{\circ}\text{C}$		7.5	Volts
MAXIMUM REVERSE CURRENT (2,500V PIV per leg) I _{r1} T _J = 25 °C		1.0	
I _{r2} T _J =100 °C		50	μΑ
INSULATION RESISTANCE (All Terminals to Base @ 15kV)	10		GΩ
REVERSE RECOVERY TIME t _{RR}		60	nsec
$I_F = 0.5A$, $I_R = 1A$, $I_{RR} = 0.25A$			

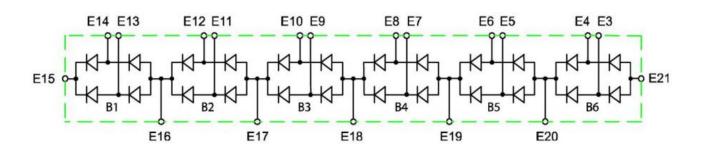
Note 1: Surge current is tested at individual diode level.

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MECHANICAL DRAWING:



SCHEMATIC:



SHVB0115THV

SENSITRON SEMICONDUCTOR

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