Part Number: SCP-5988, Rev. -

THREE PHASE FULL WAVE BRIDGE RECTIFIER

DESCRIPTION: 1000 VOLT, 140 AMP THREE PHASE BRIDGE RECTIFIER ASSEMBLY.

Features:

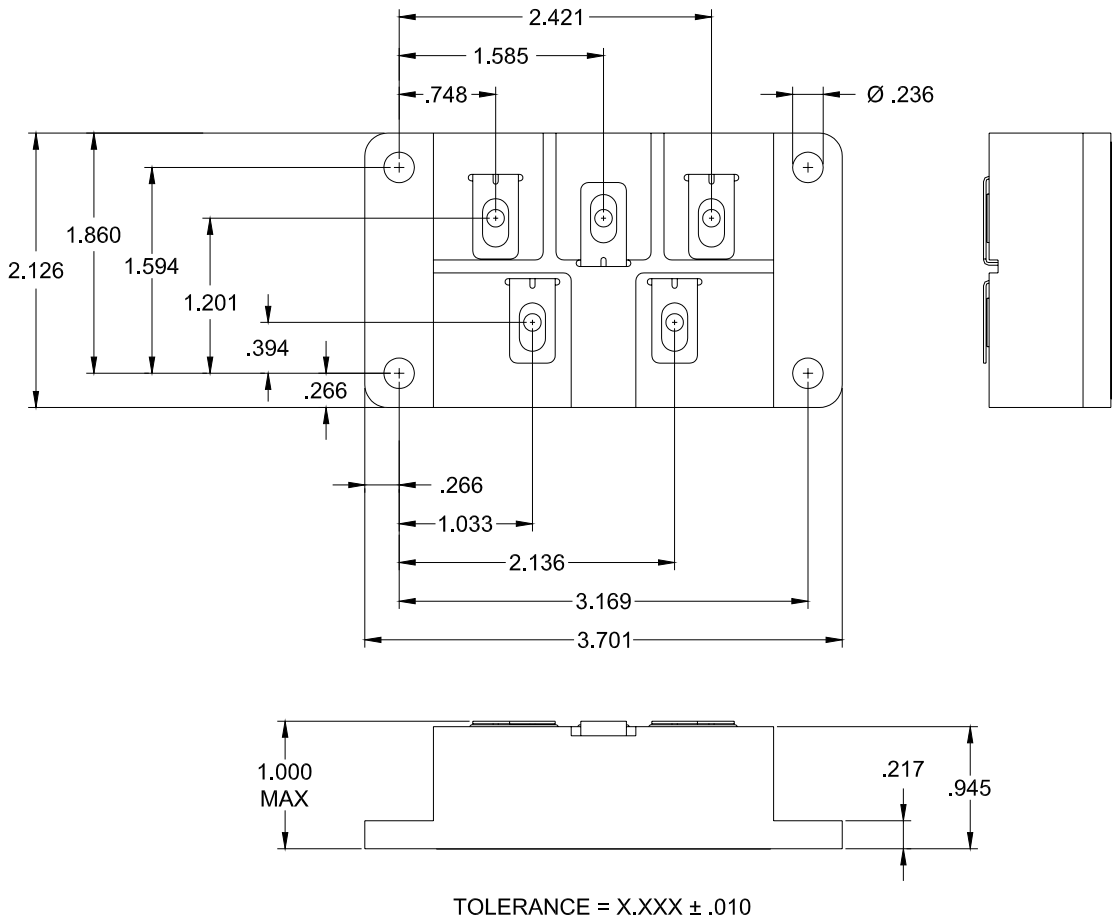
- **Low Forward Voltage Drop**
- **Low Power Loss, High Efficiency**
- **Very High Surge Capacity**
- **Very suitable for medium frequency applications (upto 10 kHz)**
- **Soft Reverse Recovery at Low and High Temperature**
- **Trr guaranteed lower than 2.5 μsec**

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^oC$ unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	1100	Vdc
Average DC Output Current (I_o)	$T_C = 55^oC$ $T_C = 100^oC$ $T_C = 125^oC$	-	-	140 100 80	Amps
Peak Single Cycle Surge Current (I_{FSM})	t_p = 8.3 ms Single Half Cycle Sine Wave	-	-	720	Amps(pk)
Peak Recurring Surge Current (I_{FRM})	$T_A = 25^oC$	-	-	300	Amps
Operating and Storage Temp. (T_{op} & T_{stg})	-	-55	-	+150	°C
Max. Forward Voltage Drop V_{F1}	@ 80A, Pulse, T_J = 25 °C	-	1.25	1.4	V
Max. Forward Voltage Drop V_{F2}	@ 80A, Pulse, T_J = 125 °C	-	-	1.25	V
Max. Reverse Current I_{R1}	@V_R = 1000V, Pulse, T_J = 25 °C	-	1.5	5.0	μA
Max. Reverse Current I_{R2}	@V_R = 1000V, Pulse, T_J = 125 °C	-	-	15	mA
Reverse Recovery Time T_{RR}	I_F = 40A; di/dt = 25A / μs, V_R = 100V, T_J = 25 °C	-	1.6	2.1	μsec
Reverse Recovery Current I_{RM}	I_F = 40A; di/dt = 25A / μs, V_R = 100V, T_J = 25 °C	-	27	40	A
Max. Junction Capacitance C_T	@V_R = 0V, T_C = 25 °C f_{SIG} = 1MHz, I_{SIG} = 100mV	-	650	800	pF

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SEN-5988 MECHANICAL OUTLINE DRAWING



TOLERANCE = X.XXX ± .010

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