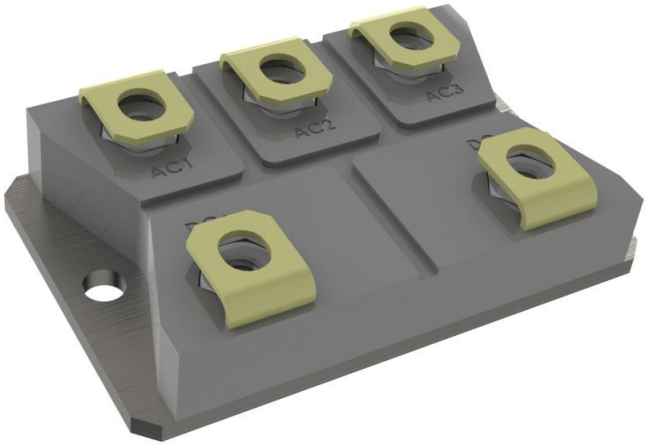
TECHNICAL DATA
DATA SHEET 6144, REV. B

THREE PHASE FULL WAVE BRIDGE FAST RECTIFIER ASSEMBLY



DESCRIPTION: 1000 V, 50 A THREE PHASE BRIDGE RECTIFIER ASSEMBLY WITH FAST RECTIFIERS. REDUCED EMI - LOW t_{RR} AND I_{RM}.

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

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Non-Repetitive Peak Inverse Voltage (PIV)	T_C = 25 °C	-	-	1200	Vdc
Repetitive Peak Inverse Voltage (PIV)	T_C = -55 °C to 150°C	-	-	1000	Vdc
Average DC Output Current (T_C = Case Temp) (I_o)	T_C = 55 °C T_C = 100 °C	-	-	95 50	A
Peak Single Cycle Surge Current (I_{FSM})	t_p = 8.3 ms Single Sine wave T_C = 25 °C	750	-	-	A
Single Cycle Energy Rating	t_p = 8.3 ms Single Sine wave T_C = 25 °C	-	4650	-	A^2s
Operating and Storage Temp (T_{op} & T_{stg})	-	-55	-	+150	°C
Junction Temp (T_J)	-	-55	-	+190	°C
Maximum Forward Voltage (V_f) (300 µsec pulse, duty cycle < 2%)	T_C = 25 °C, I_f = 50A T_C = 125 °C, I_f = 50A	-	-	1.25 1.20	V
Maximum Instantaneous Reverse Current At 1000V	T_C = 25° C T_C = 100° C	-	-	25 2000	µA
Reverse Recovery Time	I_F = 20A, V_R = 100V, di/dt = 25A/µs, T_C = 25°C	0.6	-	2.0	µs

SENSITRON

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Mechanical / Thermal Characteristics:

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Isolation Voltage	All Terminals - Base Plate	-	-	1500	VRMS
Mounting Torque	-	-	-	15	In-lb.
Terminal Torque	-	-	-	15	In-lb.
Weight	-	-	60	75	gms
Thermal Resistance ($\theta_{J\text{-}C}$)	Per Diode	-	-	0.80	°C/W

Note: Add a suffix **S** to the part number for S-100 Screening.

MECHANICAL DIMENSIONS: In Inches