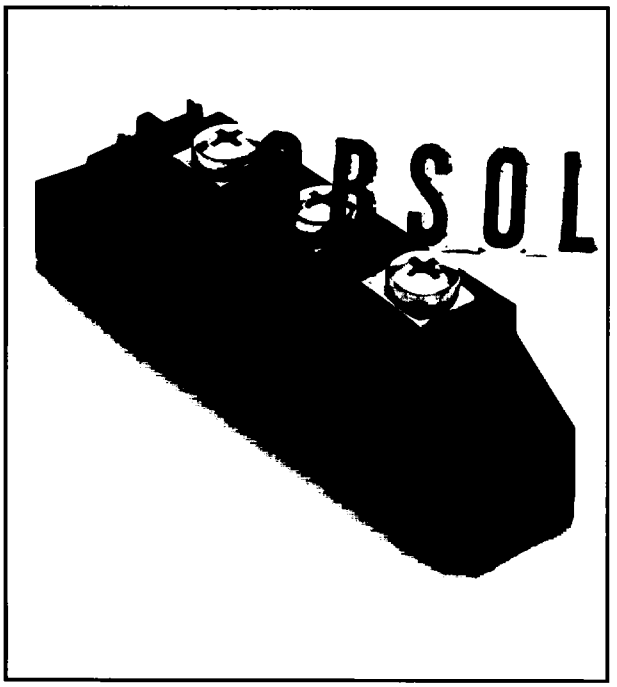
SCR Diode Module (110 Amp)



Outline/Mounting Dimensions

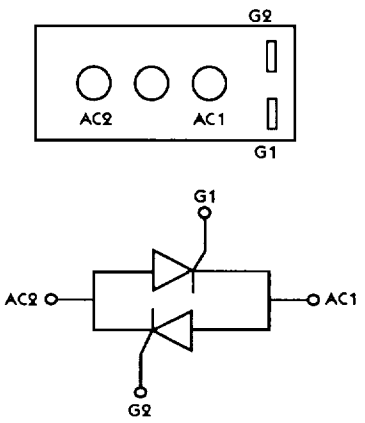
Dimension	Inches	
	Minimum	Maximum
A	3.630	3.610
B	0.797	0.777
D	0.797	0.777
E	0.520	0.480
F	1.205	1.160
G	1.100	1.070
H	3.155	3.145
J	0.130	0.120
K	0.250	0.240
L	0.380	0.370
M	0.249	0.239

MOUNTING TORQUE REQUIRED:

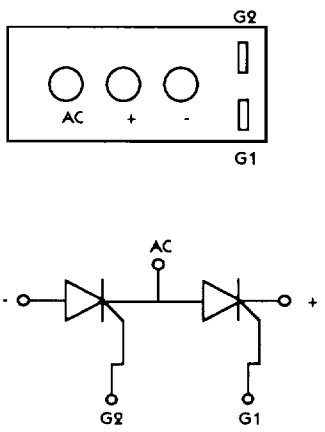
(A) Mounting Screws ..... *20 in. lbs.*
(B) Terminal Studs ..... *30 in. lbs.*

Parameters	Sym.	Units	Specification Limits	Conditions
Average Output Current per Device	1_o	A	110	T_C = 85° C
One-Cycle Surge Current (Peak)	1_{rsm}	A	1,600	T_C = 125° C Non-Repetitive
I^2t for Fusing (Max.)	I^2T	A^2S	12,750	T_C = 125° C Non-Repetitive
Rate-of-Rise On-State Current (Max.)	di/dt	A/uS	150	Max. Vdrm Peak On-State Current = 9 X 1_o (Max.)
Rate-of-Rise Off-State Voltage (Max.)	dv/dt	A/uS	500	Exponential Rise to 80% Vdrm Gate Open Circut T_C=125° C
Reverse Blocking Voltage (Max.)	Vdrm	V	1,200	T = 125° C
Leakage Current (Max.)	Irm	mA	30	T = 125° C at Rated Voltage
Isolation Voltage (Min.)	Visol	Vrms	2500V	Any Terminal-to-Base
Junction Operating and Storage Temperature Range	T_j & Tsvg	° C	-40 to 125	
Thermal Resistance (Case-to-Sink)	R^*_{j-c}	° C/W	0.1	With Thermal Grease
Thermal Resistance (Junction-to-Case)	R^*_{j-c}	° C/W	0.18	per Module
Forward Gate Current (Peak)	I_{fom}	A	3.0	
Gate Current Required to Fire All Devices (Max.)	I_{gt}	mA	120	D mode Supply = CV Resistive Load
Reverse Gate Voltage (Peak)	V_{rgm}	V	2.0	
Gate Voltage Required to Fire (Max.)	V_{gt}	V	2.5	N mode Supply = CV Resistive Load
Holding Current (Max.)	1_w	mA	200	T_j = 25° C VA = 12V
Gate Power (Peak)	P_{gm}	W	12	T_p = 5 ms

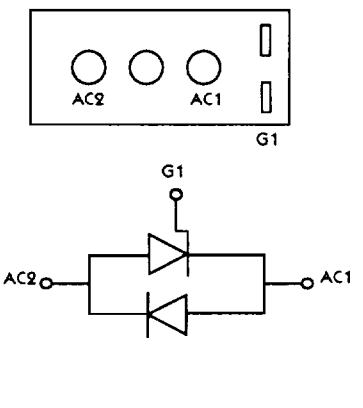
SCR 110D-1



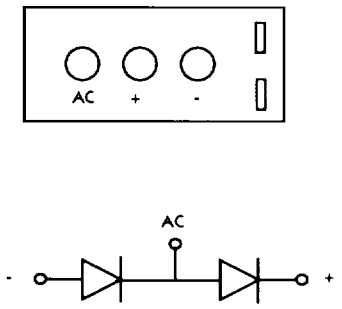
SCR 110D-2



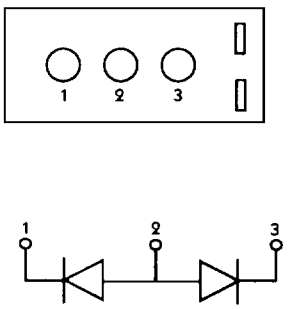
SCR 110D-3



D 110D-1



D 110D-2



D 110D-3