

3 PHASE FULL AND HALF WAVE BRIDGES

ABSOLUTE MAXIMUM RATINGS (@25°C UNLESS OTHERWISE SPECIFIED)

T.23.07

Device Type	Reverse Voltage	Average Forward Current						1 Cycle Surge Current tp=8.3ms	Reverse Recovery (3)	Forward Voltage		Reverse Current		Thermal Impedance	Case Outline
		(1)			(2)					Vf	@If	Ir	Ir		
	IF (AV) @ TCASE			IF (AV) @ TAMB			IFSM	Trr	Vf	@If	Ir	Ir	θJC		
	55°C 100°C 125°C			25°C 55°C 100°C					@25°C		@25°C	@100°C			
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	nS	Volts	Amps	μA	μA	°C/W	

3 PH FULL WAVE BRIDGE

SET111404 ^A	400	45	33	24					150	150	1.5	3	60	0.5	G56
SET111411	150	45	33	24					175	30	1.1	3	1500		
SET111412 ^A	600	45	33	24					150	2000	1.2	3	60		
SET111419 ^A	1000	30	24	18					150	150	2.2	3	75		
SET111423	500	30	24	18					150	50	1.6	30	1500	0.5	G56
SC3BJ05	50	3.0	2.0	2.0	2.0	1.5	1.0	50	2000	1.10	1.0	3	75	6.0	G36
SC3BJ1	100		3.0	2.0	2.0	1.5	1.0	50	2000	1.10					
SC3BJ2	200		3.0	2.0	2.0	1.5	1.0	50	2000	1.10					
SC3BJ4	400		3.0	2.0	2.0	1.5	1.0	50	2000	1.10					
SC3BJ6	600		3.0	2.0	2.0	1.5	1.0	50	2000	1.10					
SC3BJ05F	50		3.5	2.5	1.5	1.0	0.7	25	150	1.20					
SC3BJ1F	100		3.5	2.5		1.0		25	150						
SC3BJ2F	200		3.5	2.5		1.0		25	150						
SC3BJ4F	400		3.5	2.5		1.0		25	150						
SC3BJ6F	600		3.5	2.5		1.0		25	250		1.0		75		
SC3BJ10FF	100		3.1	1.8		1.1		35	30		1.5		150		
SC3BJ15FF	150		3.1	1.8		1.1	0.7	35	30	1.20	1.5		150	6.0	G36
SC3BH05	50	10.0	7.0	5.0	4.0	3.0	1.7	150	2000	1.00	3.0		60	4.5	G35
SC3BH1	100	10.0	7.0	5.0	4.0	3.0	1.7		2000						
SC3BH2	200	10.0	7.0	5.0	4.0	3.0	1.7		2000						
SC3BH4	400	10.0	7.0	5.0	4.0	3.0	1.7		2000						
SC3BH6 ^F	600	10.0	7.0	5.0	4.0	3.0	1.7		2000						
SC3BH05F	50	9.0	6.3	4.5	3.0	2.2	1.2		150	1.1					
SC3BH1F	100	9.0	6.3	4.5	3.0	2.2	1.2		150						
SC3BH2F	200	9.0	6.3	4.5	3.0	2.2	1.2		150						
SC3BH4F ^F	400	9.0	6.3	4.5	3.0	2.2	1.2	150	150		3.0	3	60		
SC3BH6SF	50	12.0	9.0	7.5	4.0	3.0	1.7	175	30	0.97	5.0	30	1500		
SC3BH10FF	100	12.0	9.0	7.5	4.0	3.0	1.7	175	30	0.97	5.0	30	1500		
SC3BH15FF	150	12.0	9.0	7.5	4.0	3.0	1.7	175	30	0.97	5.0	30	1500	4.5	G35
SC3BA05	50	18.0	12.4	9.0	6.0	5.0	3.0	150	2000	1.00	3.0	3	60	2.5	G37
SC3BA1	100	18.0	12.4	9.0					2000	1.00			60		
SC3BA2	200	18.0	12.4	9.0					2000	1.00			60		
SC3BA4	400	18.0	12.4	9.0					2000	1.00			60		
SC3BA6 ^F	600	18.0	12.4	9.0					2000	1.00			60		
SC3BA05F	50	15.0	10.5	7.5					150	1.10			75		
SC3BA1F	100	15.0	10.5	7.5					150	1.10			75		
SC3BA2F	200	15.0	10.5	7.5					150	1.10			75		
SC3BA4F ^F	400	15.0	10.5	7.5				150	150	1.10	3.0	3	75		
SC3BA05FF	50	17.0	10.0	5.0				175	30	0.97	5.0	30	1500		
SC3BA10FF	100	17.0	10.0	5.0				175	30	0.97	5.0	30	1500		
SC3BA15FF	150	17.0	10.0	5.0	6.0	5.0	3.0	175	30	0.97	5.0	30	1500	2.5	G37
SC3B483-1 ^{BC}	200	25.0	18.5	9.25	8	6	4	150	2000	1.30	39	2	200	—	G119
SC3B483-2 ^{BC}	400	25.0	18.5	9.25	8	6	4	150	2000	1.30	39	2	200	—	G119
SC3B483-3 ^{BC}	600	25.0	18.5	9.25	8	6	4	150	2000	1.30	39	2	200	—	G119

NOTES:

Operating and Storage Temperature Ranges are -55°C to +150°C unless otherwise indicated.

(A) Operating and Storage Temperature Range -55°C to +175°C.

(B) Operating and Storage Temperature Range -65°C to +150°C.

(C) Available as JTX to MIL-S-19500/483.

(F) These devices are available in Europe to F and FX levels.

(1) Ratings at Case Temperature T_c.(2) Ratings at Ambient Temperature T_{amb}.

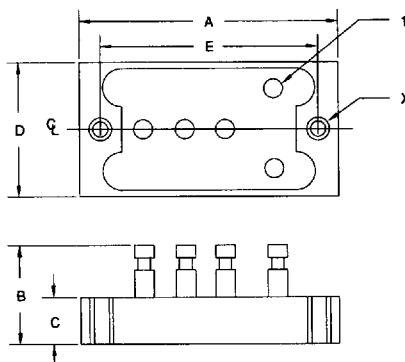
(3) Measured on discrete devices prior to assembly.

G35

DIM	MM		INCHES		NOTE
	MIN	MAX	MIN	MAX	
A	31.0	32.5	1.22	1.28	-
B	-	12.7	-	.50	-
C	5.6	7.1	.22	.28	-
D	18.3	19.8	.72	.78	-
E	26.7	27.2	1.05	1.07	-
X	4-40 UNC-2B THRU (2 PLCS)				-

NOTES

1 POSITIVE TERMINAL

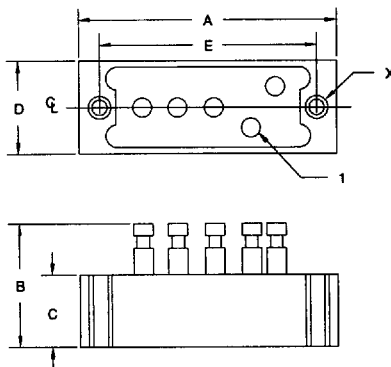


G36

DIM	MM		INCHES		NOTE
	MIN	MAX	MIN	MAX	
A	31.0	32.5	1.22	1.28	-
B	-	15.2	-	.60	-
C	8.6	9.5	.34	.37	-
D	10.9	11.9	.43	.47	-
E	26.7	27.2	1.05	1.07	-
X	4-40 UNC-2B THRU (2 PLCS)				-

NOTES

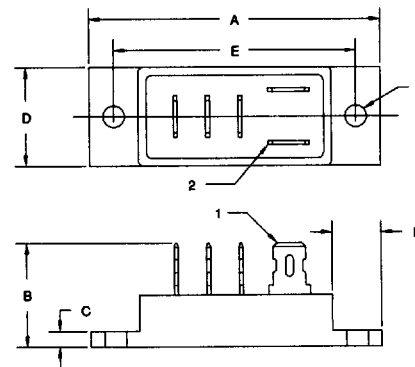
1 POSITIVE TERMINAL



G37

DIM	MM		INCHES		NOTE
	MIN	MAX	MIN	MAX	
A	56.4	57.9	2.22	2.28	-
B	-	20.3	-	.80	-
C	2.3	3.8	.09	.15	-
D	18.3	19.8	.72	.78	-
E	46.7	48.3	1.84	1.90	-
F	8.6	10.2	.34	.40	-
X	3.6	5.1	.14	.20	-

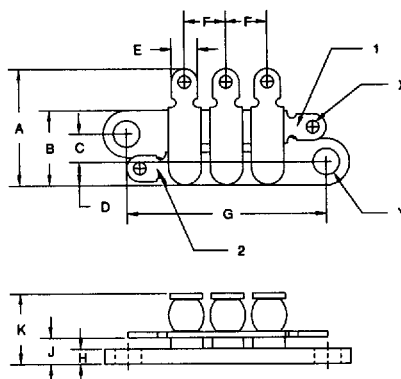
NOTES

1. .25" 'FASTON' TERMINALS
2 POSITIVE TERMINAL

G56

DIM	MM		INCHES		NOTE
	MIN	MAX	MIN	MAX	
A	15.2	16.0	.60	.63	-
B	10.0	10.4	.39	.41	-
C	3.68	3.94	.145	.155	-
D	3.0	3.3	.12	.13	-
E	3.3	3.8	.13	.15	-
F	5.3	6.1	.21	.24	-
G	26.9	27.2	1.06	1.07	-
H	1.8	2.3	.07	.09	-
J	3.3	4.1	.13	.16	-
K	8.1	9.7	.32	.38	-
X	1.5	2.0	.06	.08	DIA
Y	3.60	3.71	.142	.146	DIA

NOTES

1 POSITIVE TERMINAL - RED DOT
2 NEGATIVE TERMINAL - BLACK DOT

G119

DIMENSIONS					
LTR	MIN	MAX	LTR	MIN	MAX
A	.730	.770	L1	.240	.320
B	.355	.395	L2	.015	.030
C	.355	.395	L3	.100	.125
D1	.141	.151	M	.040	.060
D2	.108	.118	N	.72	.78
E	.355	.395	P	.184	.190
F	.230	.270	R	.222	.228
G	.149	.189	S	.168	.208
H	.355	.395	T	.147	.153
J	.82				
K	.39	.51			

NOTES

1. TERMINALS SHALL BE TINNED.
2. POLARITY SHALL BE MARKED AS SHOWN ON DRAWING
3. POINT AT WHICH T₀ IS READ (SHALL BE IN METAL PART OF CASE)