

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 I _{FSM} t _p =8.3ms | Reverse Recovery (3) | Forward Voltage | | Reverse Current | | Thermal Impedance | Case Outline | | | | | | | |
|-------------|-----------------|---|---|------|--|------|------------------|--|-------------------------|------------------|-----------------|-----------------|-----------------|-------------------|--------------|----------------|----------------|-----------------|-----------------|----------------|-----------------|----------------|
| | | (1) | | | (2) | | | | | I _{FSM} | T _{rr} | V _F | @I _F | | | I _R | I _R | θ _{JC} | | | | |
| | | I _F (AV) @ T _{Case} | | | I _F (AV) @ T _{Amb} | | | | | | | | | | | | | | @25°C | | @100°C | |
| | | V _{RM} | I _F (AV) @ T _{Case} | | I _F (AV) @ T _{Amb} | | I _{FSM} | | | | | | | | | | | | T _{rr} | V _F | @I _F | I _R |
| 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 | 2000 | 1.5 | 9 | 3 | 60 | 0.5 | G56 |
| SET111412 ^A | 600 | 45 | 33 | 24 | | | | 150 | 2000 | 1.2 | | 3 | 60 | | |
| SET111423 | 500 | 30 | 24 | 18 | | | | 150 | 50 | 1.6 | | 30 | 1500 | 0.5 | G56 |
| SC3BJ1 | 100 | | 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 | | | | | |
| SC3BJ05F | 50 | | 3.5 | 2.5 | 1.5 | 1.0 | 0.7 | 25 | 150 | 1.20 | | | | | |
| SC3BJ2F | 200 | | 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 | | |
| SC3BH05 | 50 | 10.0 | 7.0 | 5.0 | 4.0 | 3.0 | 1.7 | 150 | 2000 | 1.00 | 3.0 | | 60 | 4.5 | G35 |
| SC3BH2 | 200 | 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 | | | | | | |
| 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 | | | | | | |
| SC3BH4 ^F | 400 | 9.0 | 6.3 | 4.5 | 3.0 | 2.2 | 1.2 | 150 | 150 | | 3.0 | 3 | 60 | | |
| SC3BH10FF | 100 | 12.0 | 9.0 | 7.5 | 4.0 | 3.0 | 1.7 | 175 | 30 | 0.97 | 5.0 | 30 | 1500 | | |
| 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 |
| SC3BA2 | 200 | 18.0 | 12.4 | 9.0 | | | | | 2000 | 1.00 | | | 60 | | |
| SC3BA6 ^F | 600 | 18.0 | 12.4 | 9.0 | | | | | 2000 | 1.00 | | | 60 | | |
| SC3BA1F | 100 | 15.0 | 10.5 | 7.5 | | | | | 150 | 1.10 | | | 75 | | |
| SC3BA4 ^F | 400 | 15.0 | 10.5 | 7.5 | | | | 150 | 150 | 1.10 | 3.0 | 3 | 75 | | |
| SC3BA10FF | 100 | 17.0 | 10.0 | 5.0 | | | | 175 | 30 | 0.97 | 5.0 | 30 | 1500 | | |
| SC3B483-1 ^{BC} | 200 | 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.

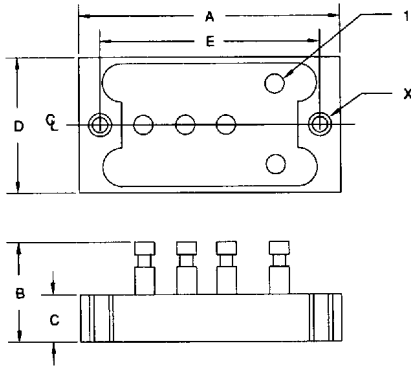
(1) Ratings at Case Temperature T_C.(2) Ratings at Ambient Temperature T_{AMB}.

(3) Measured on discrete devices prior to assembly.

G35

| DIM " | DIMENSIONS | | | | NOTE |
|-------|---------------------------|------|--------|------|------|
| | MM | | INCHES | | |
| | 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) | | | | - |

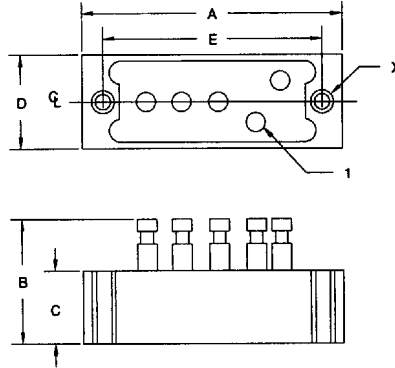
NOTES
1 POSITIVE TERMINAL



G36

| DIM " | DIMENSIONS | | | | NOTE |
|-------|---------------------------|------|--------|------|------|
| | MM | | INCHES | | |
| | 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) | | | | - |

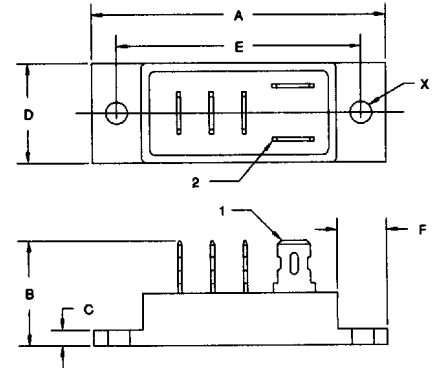
NOTES
1 POSITIVE TERMINAL



G37

| DIM " | DIMENSIONS | | | | NOTE |
|-------|------------|------|--------|------|------|
| | MM | | INCHES | | |
| | 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 | - |

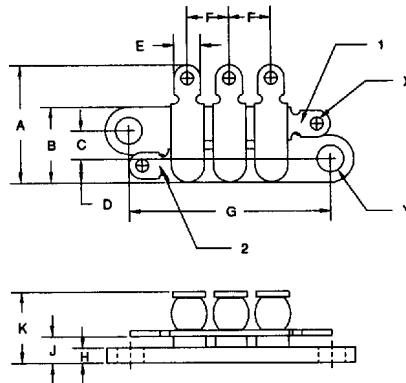
NOTES
1 .25" FASTON TERMINALS
2 POSITIVE TERMINAL



G56

| DIM " | DIMENSIONS | | | | NOTE |
|-------|------------|------|--------|------|------|
| | MM | | INCHES | | |
| | 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 | 1.6 | 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 | | | | | |
|------------|------|------|------|------|------|
| INCH | | | INCH | | |
| 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 | .072 | .078 |
| E | .355 | .395 | D | .184 | .190 |
| F | .230 | .270 | P | 2.22 | 2.28 |
| G | .149 | .189 | R | .09 | .15 |
| H | .355 | .395 | S | .168 | .208 |
| J | | .82 | T | 1.47 | 1.53 |
| K | .39 | .51 | | | |

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

