

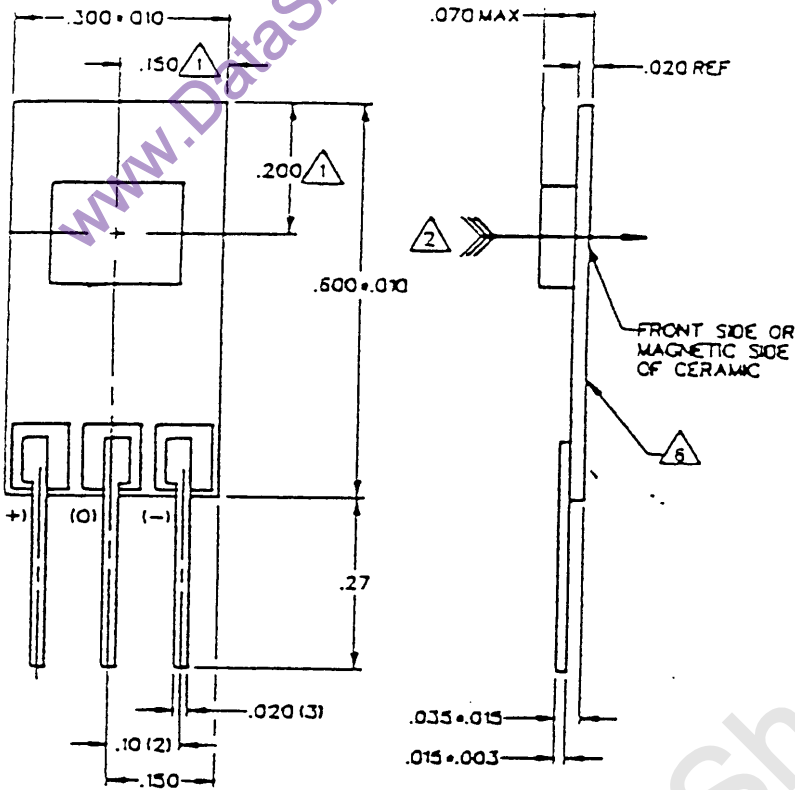
**FEC**

LINEAR OUTPUT HALL EFFECT TRANSDUCER

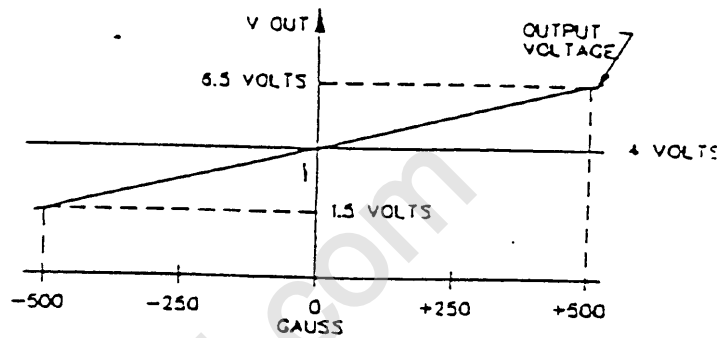
405-620

Order Code SS94A2

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NOMINAL TRANSFER CHARACTERISTICS AT 8.0 VDC



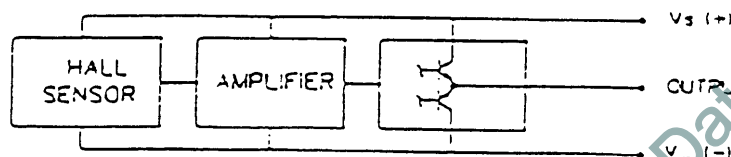
NOTES

- (1) CENTERLINE OF HALL CELL
- (2) THE + MAGNETIC FLUX IS IN THIS DIRECTION (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
- 3 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
- 4 - OUTPUT TYPE - RATIOMETRIC
- (5) THE OUTPUT IS CLAMPED AT 9.0 VDC MINIMUM, 9.5 VDC TYPICAL
- (6) THIS SIDE COATED WITH CONDUCTIVE MATERIAL WHICH IS ELECTRICALLY CONNECTED TO (-) TERMINAL

OPERATING CHARACTERISTICS

| PARAMETER                  | MIN   | TYP     | MAX   | UNITS     | CONDITIONS/REMARKS                   |
|----------------------------|-------|---------|-------|-----------|--------------------------------------|
| SUPPLY VOLTAGE             | 6.6   | 8.0     | 12.6  | VOLTS     | -40°C TO +125°C                      |
| SUPPLY CURRENT             |       | 13      | 30    | mA        | MAX @ 12.6 V @ -40°C                 |
| OUTPUT CURRENT             |       |         | 1     | mA        | SINKING OR SOURCING                  |
| OUTPUT SPAN                |       | 625 V/G |       | VOLTS     | -500G TO +500G @ 25°C (5)            |
| SENSITIVITY                | 4.90  | 5.0     | 5.10  | mV/g      | @ 8.0 V <sub>S</sub> @ 25°C          |
| LINEARITY                  |       |         | 1.0   | % OF SPAN | DEV FROM STR LINE THRU -500 AND +500 |
| V <sub>OUT</sub> @ 0 GAUSS | 3.960 | 4.000   | 4.040 | VOLTS     | 25°C                                 |
| TEMP ERROR-NULL            | -0.2  |         | +0.2  | %/°C      | -40°C TO +125°C                      |
| TEMP ERROR-GAIN            | -0.2  |         | +0.2  | %/°C      | -40°C TO +125°C                      |

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



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