

### DESCRIPTION:

The **HG SD1019-5** is Designed for VHF Communications up to 136 MHz

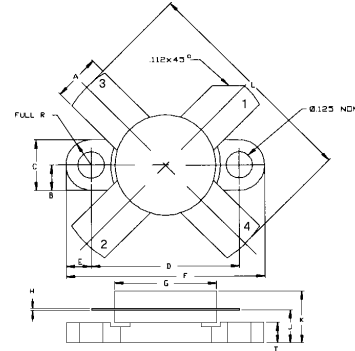
### FEATURES:

$P_G = 4.5$  dB Minimum at 150 MHz  
**Omnigold™** Metallization System

### MAXIMUM RATINGS

|            |                                 |
|------------|---------------------------------|
| $I_C$      | 9.0 A                           |
| $V_{CB}$   | 65 V                            |
| $V_{CE}$   | 35 V                            |
| $P_{DISS}$ | 117 W @ $T_C = 25^\circ C$      |
| $T_J$      | $-65^\circ C$ to $+200^\circ C$ |
| $T_{STG}$  | $-65^\circ C$ to $+150^\circ C$ |
| JC         | $1.7^\circ C/W$                 |

### PACKAGE STYLE .500 4 LEAD FLG



|   | MINIMUM<br>Inches/mm | MAXIMUM<br>Inches/mm |
|---|----------------------|----------------------|
| A | .220/5.59            | .230/5.84            |
| B | .125/3.18            |                      |
| C | .245/6.22            | .255/6.48            |
| D | .720/18.29           | .730/18.54           |
| E | .125/3.18            |                      |
| F | .970/24.64           | .980/24.89           |
| G | .495/12.57           | .505/12.83           |
| H | .003/0.08            | .007/0.18            |
| I | .090/2.29            | .110/2.79            |
| J | .160/4.06            | .175/4.45            |
| K | .280/7.11            |                      |
| L | 1.050/26.67          |                      |

1 = COLLECTOR 3 & 4 = EMITTER 2 = BASE

### CHARACTERISTICS $T_C = 25^\circ C$

| SYMBOL             | TEST CONDITIONS                                   | MINIMUM   | TYPICAL | MAXIMUM | UNITS   |
|--------------------|---|-----------|---------|---------|---------|
| $BV_{CBO}$         | $I_C = 20$ mA                                     | 65        |         |         | V       |
| $BV_{CEO}$         | $I_C = 200$ mA                                    | 35        |         |         | V       |
| $BV_{EBO}$         | $I_E = 10$ mA                                     | 4.0       |         |         | V       |
| $I_{CBO}$          | $V_{CB} = 30$ V                                   |           | 1.5     |         | mA      |
| $h_{FE}$           | $V_{CE} = 5.0$ V $I_C = 500$ mA                   | 5.0       |         |         | ---     |
| $C_{OB}$           | $V_{CB} = 30$ V $f = 1.0$ MHz                     |           |         | 150     | pF      |
| $P_{OUT}$<br>$P_G$ | $V_{CC} = 13.5$ V $P_{IN} = 10.6$ W $f = 150$ MHz | 30<br>4.5 |         |         | W<br>dB |

Note : Above parameters , ratings , limits and conditions are subject to change.