

DESCRIPTION:

The **HG SD1019-2** is Designed for VHF Communications up to 136 MHz

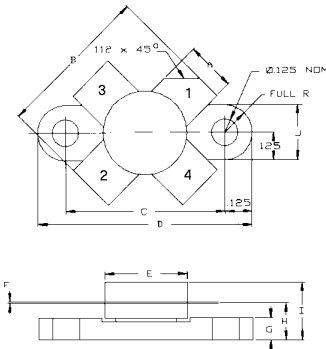
FEATURES:

$P_G = 4.5$ 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 .380 4 LEAD FLG



| | MINIMUM Inches/mm | MAXIMUM Inches/mm |
|---|----------------------|----------------------|
| A | .200/5.08 | .200/5.08 |
| B | .785/19.94 | |
| C | .748/19.00 | .738/18.74 |
| D | .970/24.64 | .960/24.39 |
| E | | .385/9.78 |
| F | .004/0.10 | .006/0.15 |
| G | .093/2.36 | .105/2.67 |
| H | .160/4.06 | .168/4.27 |
| I | | .039/0.99 |
| J | .242/6.15 | .255/6.48 |

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} P_G | $V_{CC} = 13.5$ V | $P_{IN} = 10.6$ W | $f = 150$ MHz | 30 4.5 | | | W dB |

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