

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939

S9012

Features

Rank

Range

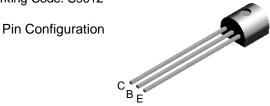
78-112

96-135

- TO-92 Plastic-Encapsulate Transistors
- Capable of 0.625Watts(Tamb=25°C) of Power Dissipation.
- Collector-current 0.5A
- Collector-base Voltage 40V
- Operating and storage junction temperature range: -55°C to +150°C

Fax:

Marking Code: S9012

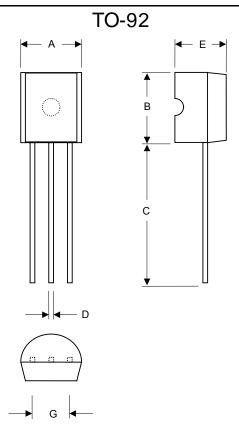


| Electrical Characteristics @ 25°C Unless Otherwise Specified | | | | | | |
|--|---|-----|-----|-------|--|--|
| Symbol | Parameter | Min | Max | Units | | |
| OFF CHARA | CTERISTICS | | | | | |
| $V_{(BR)CBO}$ | Collector-Base Breakdown Voltage (b=100uAdc, l=0) | 40 | | Vdc | | |
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage (| 25 | | Vdc | | |
| $V_{(BR)EBO}$ | Emitter-Base Breakdown Voltage (ξ =100uAdc, ξ =0) | 5.0 | | Vdc | | |
| l _{сво} | Collector Cutoff Current (V _{CB} =40Vdc, ξ =0) | | 0.1 | uAdc | | |
| I _{CEO} | Collector Cutoff Current (V _{CE} =20Vdc, \S =0) | | 0.2 | uAdc | | |
| I _{EBO} | Emitter Cutoff Current (V _{EB} =5.0Vdc, ξ =0) | | 0.1 | uAdc | | |
| ON CHARAC | CTERISTICS | | | | | |
| h _{FE(1)} | DC Current Gain (b=50mAdc, V _{CE} =1.0Vdc) | 64 | 300 | | | |
| $h_{FE(2)}$ | DC Current Gain (L=500mAdc, V _{CE} =1.0Vdc) | 40 | | | | |
| $V_{\text{CE(sat)}}$ | Collector-Emitter Saturation Voltage (b=500mAdc, b=50mAdc) | | 0.6 | Vdc | | |
| $V_{BE(sat)}$ | Base-Emitter Saturation Voltage (b=500mAdc, b=50mAdc) | | 1.2 | Vdc | | |
| V _{EB} | Base- Emitter Voltage (½=100mAdc) | | 1.4 | Vdc | | |
| SMALL-SIG | NAL CHARACTERISTICS | | | | | |
| f _T | Transistor Frequency (b=20mAdc, Vc=6.0Vdc, f=30MHz) | 150 | | MHz | | |
| CLASSIFICA | ATION OF HFE (1) | | | | | |
| | i i | _ | | | | |

G

112-166

PNP Silicon Transistors



| DIMENSIONS | | | | | | | | |
|------------|--------|------|------|------|------|--|--|--|
| | INCHES | | MM | | | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | | | |
| Α | .175 | .185 | 4.45 | 4.70 | | | | |
| В | .175 | .185 | 4.46 | 4.70 | | | | |
| С | .500 | | 12.7 | | | | | |
| D | .016 | .020 | 0.41 | 0.63 | | | | |
| E | .135 | .145 | 3.43 | 3.68 | | | | |
| G | .095 | .105 | 2.42 | 2.67 | | | | |

190-300

144-220