

Features

- Epitaxial Planar Die Construction
- · Built-In Biasing Resistors
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

PNP Digital Transistor

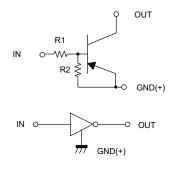
Maximum Ratings @ 25°C Unless Otherwise Specified

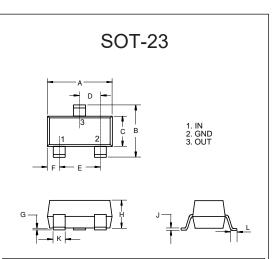
| Parameter | Symbol | Min | Тур | Max | Unit |
|----------------------|------------------|-----|------|-----|------|
| Supply Voltage | V _{CC} | | -50 | | V |
| Input Voltage | V _{IN} | -12 | | +5 | V |
| Output Current | Io | | -500 | | mA |
| Power Dissipation | P _D | | 200 | | mW |
| Junction Temperature | TJ | | | 150 | °C |
| Storage Temperature | T _{stg} | -55 | | 150 | °C |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 234

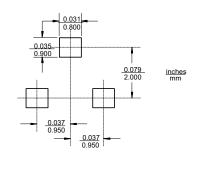
Internal Structure





| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM | INCHES | | M | М | NOTE | |
| | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.110 | 0.120 | 2.80 | 3.04 | | |
| В | 0.083 | 0.104 | 2.10 | 2.64 | | |
| С | 0.047 | 0.055 | 1.20 | 1.40 | | |
| D | 0.034 | 0.041 | 0.85 | 1.05 | | |
| Е | 0.067 | 0.083 | 1.70 | 2.10 | | |
| F | 0.018 | 0.024 | 0.45 | 0.60 | | |
| G | 0.0004 | 0.006 | 0.01 | 0.15 | | |
| Н | 0.035 | 0.043 | 0.90 | 1.10 | | |
| J | 0.003 | 0.007 | 0.08 | 0.18 | | |
| K | 0.012 | 0.020 | 0.30 | 0.51 | | |
| L | 0.007 | 0.020 | 0.20 | 0.50 | | |

Suggested Solder Pad Layout



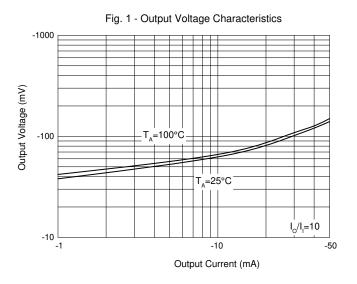


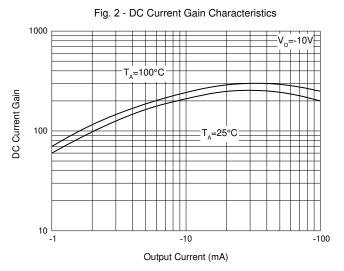
Electrical Characteristics @ 25°C Unless Otherwise Specified

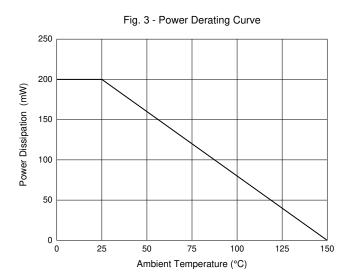
| Parameter | Symbol | Min | Тур | Max | Unit | Conditions |
|----------------------|--------------------------------|------|-----|------|------|--|
| Input Voltage | $V_{I(off)}$ | -0.5 | | | V | V _{CC} =-5V, I _O =-100μA |
| | $V_{I(on)}$ | | | -2 | V | V _O =-0.3V, I _O =-20mA |
| Output Voltage | V _{O(on)} | | | -0.3 | V | I _O =-10mA,I _I =-0.5mA |
| Input Current | I _I | | | -3.8 | mA | V _I =-5V |
| Output Current | I _{O(off)} | | | -0.5 | μA | V _{CC} =-50V, V _I =0 |
| DC Current Gain | G _i | 56 | | | | V _O =-5V, I _O =-50mA |
| Input Resistance | R ₁ | 1.54 | 2.2 | 2.86 | ΚΩ | |
| Resistance Ratio | R ₂ /R ₁ | 3.6 | 4.5 | 5.5 | | |
| Transition Frequency | f _T | | 200 | | MHz | V _{CE} =-10V, I _E =5mA, f=100MHz |



Curve Characteristics







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Ordering Information

| Device | Packing |
|----------------|----------------------|
| Part Number-TP | Tape&Reel:3Kpcs/Reel |

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