



Features

- Built-In Bias Resistors Enable the Configuration of an Inverter Circuit Without Connecting External Input Resistors
- The Bias Resistors Consist of Thin-Film Resistors With Complete Isolation to Allow Negative Biasing of the Input. They Also Have the Advantage of Almost Completely Eliminating Parasitic Effects
- Only the On/Off Conditions Need to Be Set For Operation, Making Device Design Easy
- 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)

Maximum Ratings @ 25°C Unless Otherwise Specified

| Parameter | Symbol | Value | Unit |
|------------------------------|------------------|-------------|------|
| Collector-Emitter Voltage | V_{CEO} | 50 | V |
| Collector-Base Voltage | V _{CBO} | 50 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current-Continuous | Ι _C | 100 | mA |
| Collector Dissipation | P _C | 200 | mW |
| Junction Temperature | TJ | 150 | °C |
| Storage Temperature Range | T _{STG} | -55 to +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: 04

Internal Structure







| 1 1 1 1 1 1 1 | | | | | |
|---------------|--------|-------|------|------|------|
| Divi | 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 | |
| E | 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 | |





Electrical Characteristics @ 25° C UnlessOtherwise Specified

| Parameter | Symbol | Min | Тур | Max | Units | Conditions |
|--------------------------------------|----------------------|-----|-----|-----|-------|--|
| Collector-Base Breakdown Voltage | V _{(BR)CBO} | 50 | | | V | I _C =50μA, I _E =0 |
| Collector-Emitter Breakdown Voltage | V _{(BR)CEO} | 50 | | | V | I _C =1mA, I _B =0 |
| Emitter-Base Breakdown Voltage | V _{(BR)EBO} | 5 | | | V | I _E =50μA, I _C =0 |
| Collector Cut-off Current | I _{CBO} | | | 0.5 | μA | $V_{CB}=50V,I_{E}=0$ |
| Emitter Cut-off Current | I _{EBO} | | | 0.5 | μA | V _{EB} =4V,I _C =0 |
| DC Current Gain | h _{FE} | 100 | 300 | 600 | | I _C =1mA, V _{CE} =5V |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | | | 0.3 | V | I _C =10mA, I _B =1mA |
| Input Resistance | R ₁ | 7 | 10 | 13 | KΩ | |
| Transition Frequency | f _T | | 250 | | MHz | V _{CE} =10.0V, I _E =-5mA, f=100MHz |



Curve Characteristics





Ordering Information

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

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