UNISONIC TECHNOLOGIES CO., LTD

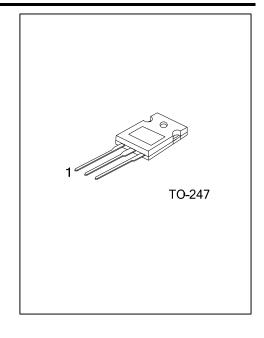
2N2955

PNP SILICON TRANSISTOR

SILICON PNP TRANSISTORS

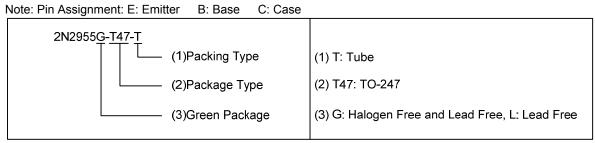
■ DESCRIPTION

The UTC **2N2955** is a silicon PNP transistor in TO-247 metal case. It is intended for power switching circuits, series and shunt regulators, output stages and high fidelity amplifiers.

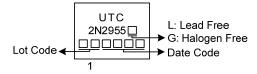


ORDERING INFORMATION

| Ordering Number | | Deelsese | Pin Assignment | | | Daakina | |
|-----------------|---------------|----------|----------------|---|---|---------|--|
| Lead Free | Halogen Free | Package | 1 | 2 | 3 | Packing | |
| 2N2955L-T47-T | 2N2955G-T47-T | TO-247 | В | С | Е | Tube | |



■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

| PARAMETERS | SYMBOL | RATINGS | UNITS |
|---|------------------|-----------|-------|
| Collector-Base Voltage | V_{CBO} | 100 | V |
| Collector-Emitter Voltage | V_{CEO} | 60 | V |
| Emitter-Base Voltage | V_{EBO} | 7 | V |
| Collector-Emitter Voltage | V_{CEV} | 70 | V |
| Collector Current | Ic | 15 | Α |
| Collector Peak Current (Note) | I _{CM} | 15 | Α |
| Base Current | Ι _Β | 7 | Α |
| Base Peak Current (Note) | I _{BM} | 15 | Α |
| Total Dissipation at T _A =25°C | P_D | 90 | W |
| Max. Operating Junction Temperature | TJ | +200 | °C |
| Storage Temperature | T _{STG} | -65 ~ 200 | °C |

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT | | |
|---|-----------------------|---|---------|-----|------------|------|--|--|
| OFF CHARACTERISTICS | | | | | | | | |
| Collector-Emitter Sustaining Voltage | V _{CEO(SUS)} | I _C =200mA, I _B =0V | 60 | | | V | | |
| Collector-Emitter Sustaining Voltage | V _{CER(SUS)} | I_{C} =0.2 A, R_{BE} =100 Ω | 70 | | | V | | |
| Collector Cut-off Current | I _{CEO} | $V_{CE}=30V,I_{B}=0$ | | | 0.7 | mA | | |
| Collector Cut-off Current | I _{CEX} | V_{CE} =100V, $V_{BE(OFF)}$ =1.5V V_{CE} =100V, $V_{BE(OFF)}$ =1.5V, Ta=150°C | | | 1.0 5.0 | mA | | |
| Emitter Cut-off Current | I _{EBO} | V_{BE} =7V, I_{C} =0 | | | 5.0 | mA | | |
| ON CHARACTERISTICS | | | | | | | | |
| DC Current Gain (Note) | h _{FE} | I _C =4A,V _{CE} =4V, I _C =10A,V _{CE} =4V | 20 5 | | 70 | | | |
| Collector-Emitter Saturation Voltage | V _{CE(SAT)} | I _C =4A, I _B =400mA I _C =10A, I _B =3.3A | | | 1.1 3.0 | V | | |
| Base-Emitter On Voltage | $V_{BE(ON)}$ | I _C =4A, V _{CE} =4V | | | 1.5 | V | | |
| SECOND BREAKDOWN | | | | | | | | |
| Second Breakdown Collector with Base Forward Biased | ls/b | V _{CE} =60V, T=1.0s, Non-repetitive | 2.87 | | | Α | | |
| DYNAMIC CHARACTERISTICS | | | | | | | | |
| Current Gain-Bandwidth Product | f_{T} | I _C =0.5A, V _{CE} =10V, f=1MHz | 2.5 | | | MHz | | |
| Small-Signal Current Gain | h _{FE} | I _C =1A, V _{CE} =4V, f=1kHz | 15 | | 120 | | | |
| Small-Signal Current Gain Cut-off Frequency | fh _{FE} | I _C =1A, V _{CE} =4V, f=1kHz | 10 | | | kHz | | |

Note: Pulse Test: PW \leq 300 μ s, Duty Cycle \leq 2%.

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