UNISONIC TECHNOLOGIES CO., LTD

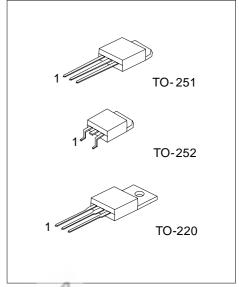
MJE3055T

NPN SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

The UTC MJE3055T is designed for general purpose of amplifier and switching applications.



*Pb-free plating product number:MJE3055TL

ORDERING INFORMATION

| | Order Number | | Dookogo | Pin Assignment | | | Dooking | |
|---|----------------|-------------------|---------|----------------|---|---|-----------|--|
| | Normal | Lead Free Plating | Package | 21 | 2 | 3 | Packing | |
| | MJE3055T-TA3-T | MJE3055TL-TA3-T | TO-220 | В | C | Е | Tube | |
| | MJE3055T-TM3-T | MJE3055TL-TM3-T | TO-251 | В | C | Е | Tube | |
| | MJE3055T-TN3-R | MJE3055TL-TN3-R | TO-252 | В | С | Е | Tape Reel | |
| Г | MJE3055T-TN3-T | MJE3055TL-TN3-T | TO-252 | В | С | Е | Tube | |



www.unisonic.com.tw 1 of 2 QW-R203-011,B

■ ABSOLUTE MAXIMUM RATINGS (Tc=25)

(Operating temperature range applies unless otherwise specified)

| PARAME | SYMBOL | RATINGS | UNIT | |
|---------------------------|------------------|------------------|--------------------|-------------|
| Collector-Base Voltage | | V _{CBO} | 70 | V |
| Collector-Emitter Voltage | V _{CEO} | 60 | V | |
| Emitter-Base Voltage | | V _{EBO} | 5 | V |
| Total Bower Dissipation | TO-220 | P _D | 75 | W |
| Total Power Dissipation | TO-251/TO-252 |] [| 20 | W W A |
| Collector Current | · | Ic | 10 | Α |
| Base Current | | I _B | 6 | Α |
| Junction Temperature | | T_J | 150 | |
| Storage Temperature | | T _{STG} | -55 ~ + 150 | |

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 (Ta=25 , unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT | |
|--|-----------------------|--|----------------------|-----|-----|------|--|
| Collector-Emitter Breakdown Voltage | BV _{CEO} | I _C =200mA | 60 | | | V | |
| Collector-Base Breakdown Voltage | BV _{CBO} | I _C =10mA | 70 | | | V | |
| Emitter-Base Breakdown Voltage | BV_{EBO} | I _E =10mA | 5 | | | V | |
| | I _{CBO} | V _{CB} =70V | - / | | 1 | mA | |
| Collector Cut-off Current | I _{CEO} | V _{CE} =30V V _{CE} =70V, V _{EB(OFF)} =1.5V | | | 700 | μΑ | |
| | I _{CEX} | | | | 1 | mA | |
| Emitter Cut-off Current | I _{EBO} | V _{EB} =5V | | | 5 | mA | |
| Collector-Emitter Saturation Voltage | V _{CE(SAT)1} | I _C =4A, I _B =0.4A | | | 1.1 | V | |
| Collector-Efflitter Saturation Voltage | V _{CE(SAT)2} | $I_{C}=10A$, $I_{B}=3.3A$ | | | 8 | | |
| Base-Emitter on Voltage | V _{BE(ON)} | V _{CE} =4V, I _C =4A | | | 1.8 | V | |
| DC Current Gain | h _{FE} 1 | I _C =4A, V _{CE} =4V | _{LE} =4V 20 | | 100 | | |
| DC Current Gain | h _{FE} 2 | I _C =4A, V _{CE} =10V | 5 | | 100 | | |
| Current Gain Bandwidth Product | f _T | V _{CE} =10V, I _C =0.5A, f=1MHz | 2 | | | MHZ | |

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