UNISONIC TECHNOLOGIES CO., LTD

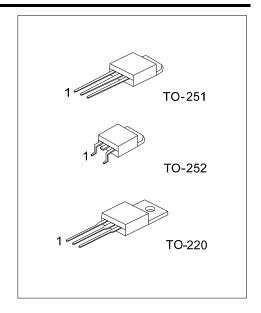
MJE3055T

NPN SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

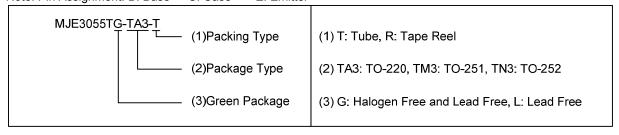
DESCRIPTION

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

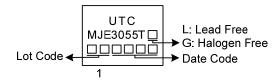


■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MJE3055TL-TA3-T	MJE3055TG-TA3-T	TO-220	В	C	Е	Tube	
MJE3055TL-TM3-T	MJE3055TG-TM3-T	TO-251	В	C	Е	Tube	
MJE3055TL-TN3-R	MJE3055TG-TN3-R	TO-252	В	С	E	Tape Reel	



■ MARKING



<u>www.unisonic.com.tw</u> 1 of 3

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

PARAMETER		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 Dawer Dissipation	TO-220	D-	75	W
Total Power Dissipation		20	W	
Collector Current		Ιc	10	Α
Base Current		lΒ	6	Α
Junction Temperature		TJ	+150	°C
Storage Temperature		T _{STG}	-55 ~ +150	°C

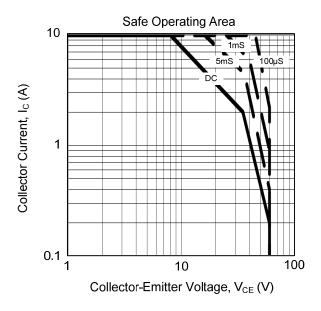
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **ELECTRICAL CHARACTERISTICS** (Ta=25°C, 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			700	μΑ
	I _{CEX}	V _{CE} =70V, V _{EB(OFF)} =1.5V			1	mA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V			5	mA
Collector-Emitter Saturation Voltage (Note)	$V_{CE(SAT)1}$	I _C =4A, I _B =0.4A			1.1	V
Collector-Emitter Saturation Voltage (Note)	$V_{\text{CE}(\text{SAT})2}$	I _C =10A, I _B =3.3A			8	V
Base-Emitter on Voltage	$V_{BE(ON)}$	V _{CE} =4V, I _C =4A			1.8	V
DC Current Gain (Note)	h _{FE1}	V _{CE} =4V , I _C =4A	20		100	
Do Guirent Gain (Note)	h _{FE2}	V _{CE} =4V , I _C =10A	5			
Current Gain Bandwidth Product	f⊤	V _{CE} =10V, I _C =0.5A, f=1MHz	2			MHZ

Note: Pulse test: $P_W \le 300\mu s$, duty cycle $\le 2\%$.

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.