UNISONIC TECHNOLOGIES CO., LTD

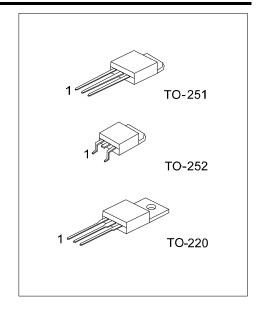
MJE3055T

NPN SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

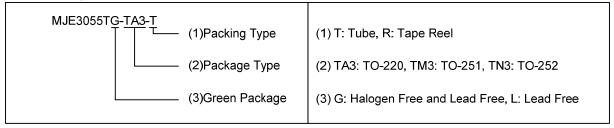
The UTC MJE3055T is designed for general purpose of amplifier and switching applications.



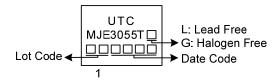
ORDERING INFORMATION

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	

Note: Pin Assignment: B: Base C: Case E: Emitter



MARKING



Chunnithing 1688.com www.unisonic.com.tw 1 of 3 QW-R203-011.E

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 Dawar Dissipation	TO-220	P_{D}	75	W
Total Power Dissipation	TO-251/TO-252	FD	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.

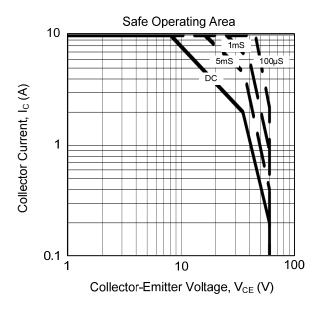
ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

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
Collector Cut-off Current	I _{CBO}	V _{CB} =70V			1	mA
	I _{CEO}	V _{CE} =30V			700	μA
	I _{CEX}	V _{CE} =70V, V _{EB(OFF)} =1.5V			1 700 1 5 1.1 8 1.8 100	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 _{CE(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 Coin (Note)	h _{FE1}	V _{CE} =4V , I _C =4A	20		100	
DC Current 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



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