UNISONIC TECHNOLOGIES CO., LTD

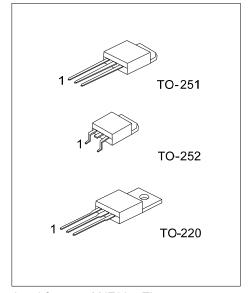
MJE3055T

NPN SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

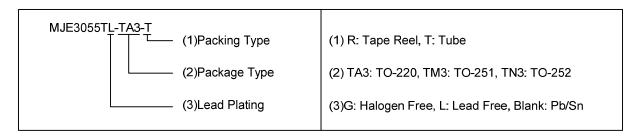
The UTC MJE3055T is designed for general purpose of amplifier and switching applications.



Lead-free: MJE3055TL Halogen-free: MJE3055TG

ORDERING INFORMATION

Ordering Number			Dealtone	Pin Assignment			Doolsing	
Normal	Lead Free Plating	Halogen Free	Package	1	2	3	Packing	
MJE3055T-TA3-T	MJE3055TL-TA3-T	MJE3055TG-TA3-T	TO-220	В	С	Е	Tube	
MJE3055T-TM3-T	MJE3055TL-TM3-T	MJE3055TG-TM3-T	TO-251	В	С	Е	Tube	
MJE3055T-TN3-R	MJE3055TL-TN3-R	MJE3055TG-TN3-R	TO-252	В	С	Е	Tape Reel	



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■ **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 Power Dissipation	TO-220	P _D	75	W
Total Fower Dissipation	TO-251/TO-252	FD FD	20	W
Collector Current		Ic	10	Α
Base Current		Ι _Β	6	Α
Junction Temperature		TJ	T _J 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	μA
	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 _{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 _T	V _{CE} =10V, I _C =0.5A, f=1MHz	2			MHZ

Note: Pulse test: PW≤300µs, duty cycle≤2% Pulse

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