UTC UNISONIC TECHNOLOGIES CO., LTD

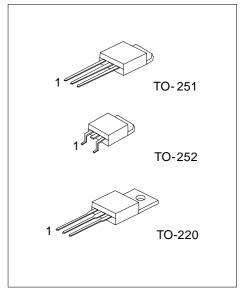
MJE3055T

NPN SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

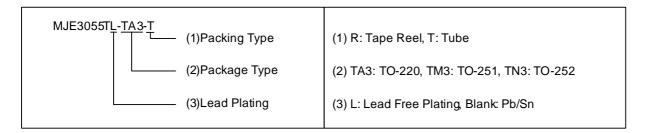
The UTC MJE3055T is designed for general purpose of amplifier and switching applications.



*Pb-free plating product number:MJE3055TL

ORDERING INFORMATION

Order I		Pin Assignment					
Normal	Lead Free Plating	Package	1	2	3	Packing	
MJE3055T-TA3-T	MJE3055TL-TA3-T	TO-220	В	С	Е	Tube Tube	
MJE3055T-TM3-T	MJE3055TL-TM3-T	TO-251	В	С	Е		
MJE3055T-TN3-R	MJE3055TL-TN3-R	TO-252	В	С	Е	Tape Reel	
MJE3055T-TN3-T	MJE3055TL-TN3-T	TO-252	В	С	Е	Tube	



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■ 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		IΒ	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			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	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 20			100		
DC Current Gain	h _{FE} 2	I _C =4A, V _{CE} =10V	5		100		
Current Gain Bandwidth Product	f⊤	V _{CE} =10V, I _C =0.5A, f=1MHz	2			MHZ	

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