

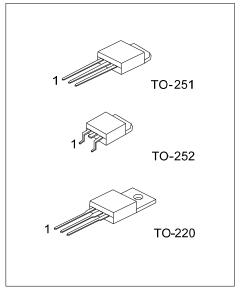
MJE3055T

NPN SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

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



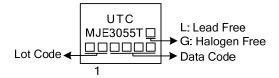
ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MJE3055TL-TA3-T	MJE3055TG-TA3-T TO-220 B		С	Е	Tube		
MJE3055TL-TM3-T	MJE3055TG-TM3-T TO-251 B		С	Е	Tube		
MJE3055TL-TN3-R	MJE3055TG-TN3-R	TO-252	В	С	Е	Tape Reel	
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Note: Pin Assignment: B: Base C: Case E: Emitter

MJE3055TL- <u>TA3-T</u>	(1)Packing Type	(1) T: Tube, R: Tape Reel
	(2)Package Type	(2) TA3: TO-220, TM3: TO-251, TN3: TO-252
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector-Base Voltage		V _{CBO}	70	V	
Collector-Emitter Voltage	ollector-Emitter Voltage		60	V	
Emitter-Base Voltage		V _{EBO}	5	V	
Total Power Dissipation	TO-220	D	75	W	
	TO-251/TO-252	- P _D	20	W	
Collector Current		lc	10	А	
Base Current		IB	6	А	
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	μA
	I _{CEX}	V _{CE} =70V, V _{EB(OFF)} =1.5V			1	mΑ
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
	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 Cain (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 $\le 2\%$.



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