



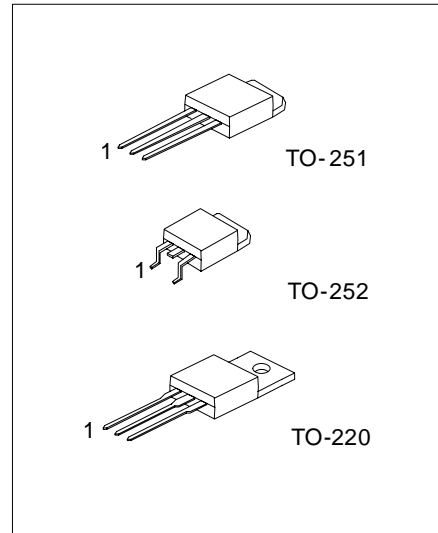
MJE3055T

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 Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
MJE3055T-TA3-T	MJE3055TL-TA3-T	TO-220	B	C	E	Tube
MJE3055T-TM3-T	MJE3055TL-TM3-T	TO-251	B	C	E	Tube
MJE3055T-TN3-R	MJE3055TL-TN3-R	TO-252	B	C	E	Tape Reel
MJE3055T-TN3-T	MJE3055TL-TN3-T	TO-252	B	C	E	Tube

<p>MJE3055TL-TA3-T</p>	<p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Lead Plating</p>	<p>(1) R: Tape Reel, T: Tube</p> <p>(2) TA3: TO-220, TM3: TO-251, TN3: TO-252</p> <p>(3) L: Lead Free Plating, Blank: Pb/Sn</p>
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■ ABSOLUTE MAXIMUM RATINGS ($T_c=25$)

(Operating temperature range applies 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
	TO-251/TO-252		20	W
Collector Current		I_C	10	A
Base Current		I_B	6	A
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 ($T_a=25$, 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
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	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
	$V_{CE(SAT)2}$	$I_C=10A, I_B=3.3A$			8	V
Base-Emitter on Voltage	$V_{BE(ON)}$	$V_{CE}=4V, I_C=4A$			1.8	V
DC Current Gain	h_{FE1}	$I_C=4A, V_{CE}=4V$	20			
	h_{FE2}	$I_C=4A, V_{CE}=10V$	5		100	
Current Gain Bandwidth Product	f_T	$V_{CE}=10V, I_C=0.5A, f=1MHz$	2			MHZ

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