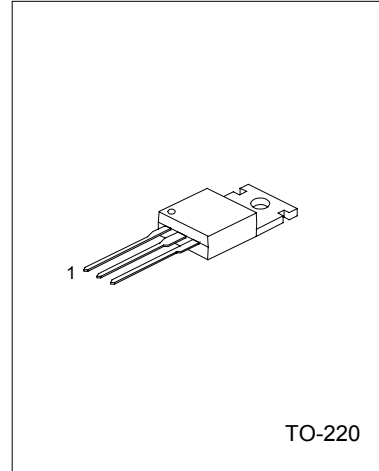


UTC MJE2955T PNP EPITAXIAL SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

The UTC MJE2955T is designed for general purpose of amplifier and switching applications.



1:BASE 2: COLLECTOR 3: EMITTER

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

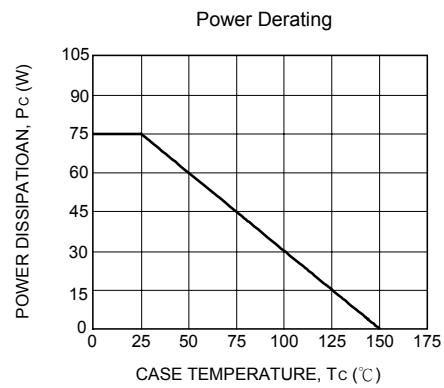
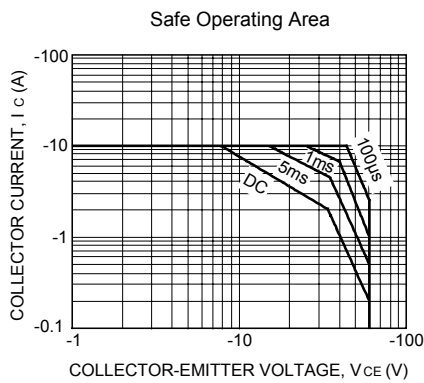
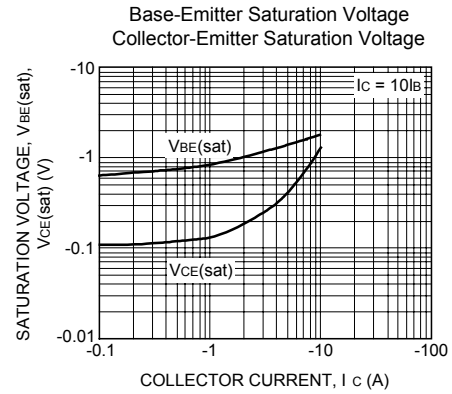
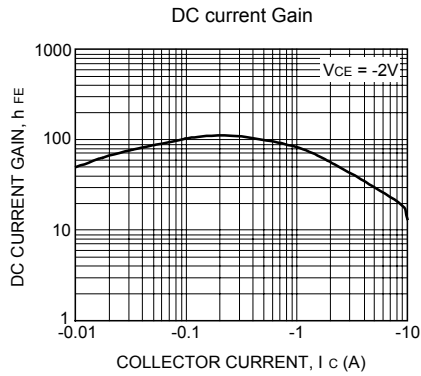
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	70	V
Collector-emitter voltage	V_{CE0}	60	V
Emitter-base voltage	V_{EB0}	5	V
Total Power Dissipation($T_a=25^{\circ}\text{C}$)	P_c	75	W
Collector current	I_c	10	A
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$
Base Current	I_B	6	A

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-emitter breakdown voltage	BV_{CE0}	$I_c=200\text{mA}$	60			V
Collector-Base Breakdown Voltage	V_{BC0}	$I_c=10\text{mA}$	70			V
Emitter-Base Breakdown Voltage	BV_{EB0}	$I_E=10\text{mA}$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=70\text{V}$			1	mA
	I_{CEO}	$V_{CE}=30\text{V}$			700	μA
	I_{CEX}	$V_{CE}=70\text{V}, V_{EB}(\text{off})=1.5\text{V}$			1	mA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}$			5	mA
Collector-emitter saturation voltage	$V_{CE}(\text{SAT})_1$	$I_c=4\text{A}, I_B=0.4\text{A}$			1.1	V
	$V_{CE}(\text{SAT})_2$	$I_c=10\text{A}, I_B=3.3\text{A}$			8.0	V
Base-emitter on voltage	$V_{BE}(\text{ON})$	$V_{CE}=4\text{V}, I_c=4\text{A}$			1.8	V
DC current gain	h_{FE1}	$I_c=4\text{A}, V_{CE}=4\text{V}$	20		100	
	h_{FE2}	$I_c=10\text{A}, V_{CE}=4\text{V}$	5			
Current gain bandwidth product	f_T	$V_{CE}=10\text{V}, I_c=0.5\text{A}, f=1\text{MHz}$	2			MHZ

UTC MJE2955T PNP EPITAXIAL SILICON TRANSISTOR

TYPICAL CHARACTERISTIC



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.