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MJE2955T

General Purpose and Switching Applications

- DC Current Gain Specified to I_C = 10 A
 High Current Gain Bandwidth Product : f_T = 2MHz (Min.)



1.Base 2.Collector 3.Emitter

PNP Silicon Transistor

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 70	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current	- 10	Α
I _B	Base Current	- 6	Α
P _C	Collector Dissipation (T _C =25°C)	75	W
P _C	Collector Dissipation (T _a =25°C)	0.6	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

$\textbf{Electrical Characteristics} \ \, \textbf{T}_{\text{C}} = 25^{\circ} \text{C unless otherwise noted}$

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector- Emitter Breakdown Voltage	I_{C} = - 200mA, I_{B} = 0	-60		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = -30V, I_{B} = 0$		-700	μΑ
I _{CEX1}	Collector Cut-off Current	$V_{CE} = -70V, V_{BE}(off) = 1.5V$		-1	mA
I _{CEX2}	Collector Cut-off Current	$V_{CE} = -70V, V_{BE}(off) = 1.5V$ @ $T_{C} = 150^{\circ}C$		-5	mA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		-5	mA
h _{FE}	* DC Current Gain	V _{CE} = - 4V, I _C = - 4A V _{CE} = - 4V, I _C = - 10A	20 5	100	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -4A, I _B = -0.4A I _C = -10A, I _B = -3.3A		-1.1 -8	V V
V _{BE} (on)	* Base-Emitter ON Voltage	V _{CE} = - 4V, I _C = - 4A		-1.8	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -500mA$	2		MHz

^{*} Pulse test: PW≤300μs, duty cycle≤2% Pulse

Typical Characteristic

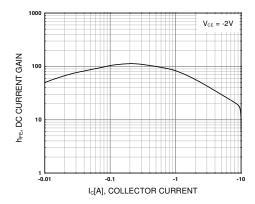


Figure 1. DC current Gain

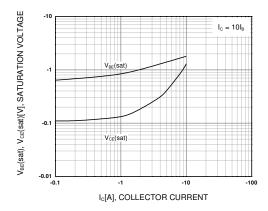


Figure 2. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

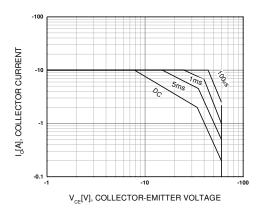


Figure 3. Safe Operating Area

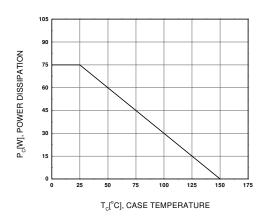
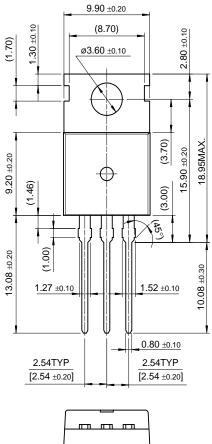
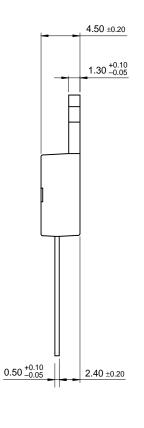


Figure 4. Power Derating

Package Demensions

TO-220





10.00 ±0.20

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