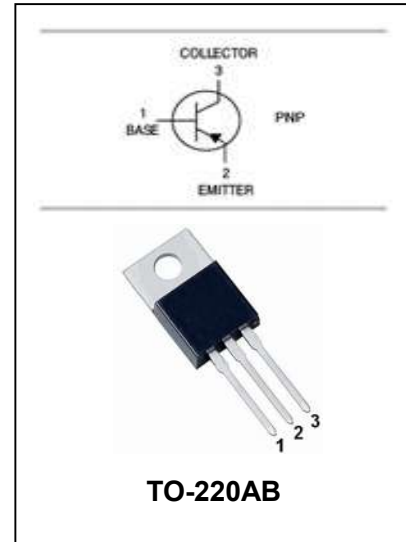


Plastic-Encapsulate Transistors

MJE2955

FEATURES

- DC Current Gain Specified to 10A.
- High Current Gain.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	Value	Unit
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	A
I_B	Base Current	-6	A
P_C	Collector Dissipation @ $T_C=25^{\circ}C$	75	W
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	$^{\circ}C$

Plastic-Encapsulate Transistors

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ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C=-200mA, I_B=0$	-60		V
Collector Cut-off Current	I_{CEO}	$V_{CE}=-30V, I_B=0$		-700	μA
Collector Cut-off Current	I_{CEX}	$V_{CE}=-70V, V_{EB(off)}=-1.5V$ $V_{CE}=-70V, V_{EB(off)}=-1.5V, T_C=150^\circ C$		-1.0 5.0	mA
Collector Cut-off Current	I_{CBO}	$V_{CB}=-70V, I_E=0$ $V_{CB}=-70V, I_E=0, T_C=150^\circ C$		-1 -10	mA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$		-5	mA
DC Current Gain	h_{FE}	$V_{CE}=-4V, I_C=-4A$ $V_{CE}=-4V, I_C=-10A$	20 5.0	100	
Collector-emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-4A, I_B=-0.4A$ $I_C=-10A, I_B=-3.3A$		-1.1 -8.0	V
Base-emitter on Voltage	$V_{BE(on)}$	$V_{CE}=-4V, I_C=-4A$		-1.8	V
Transition Frequency	f_T	$V_{CE}=-10V, I_C=-0.5A, f=500kHz$	2		MHz

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

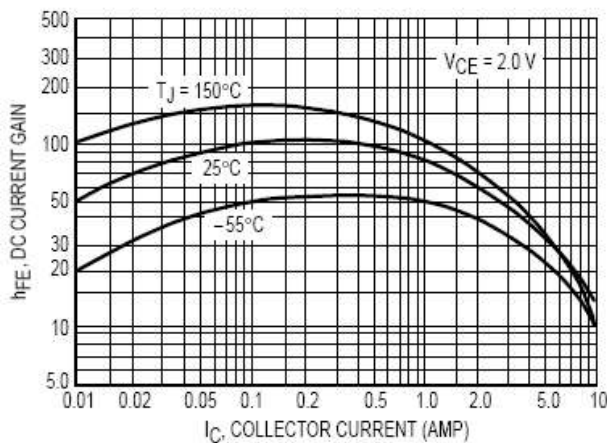


Figure 2. DC Current Gain

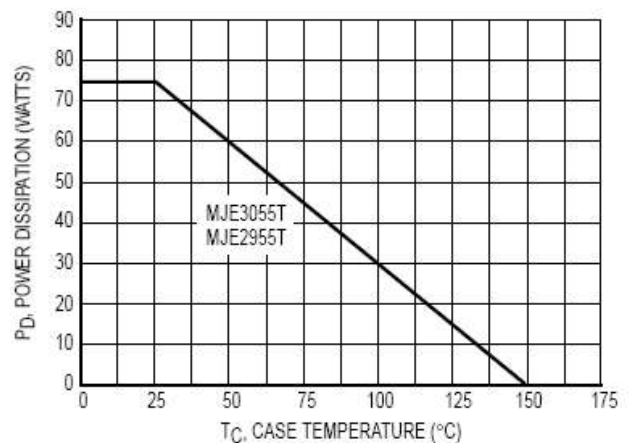


Figure 3. Power Derating

Plastic-Encapsulate Transistors

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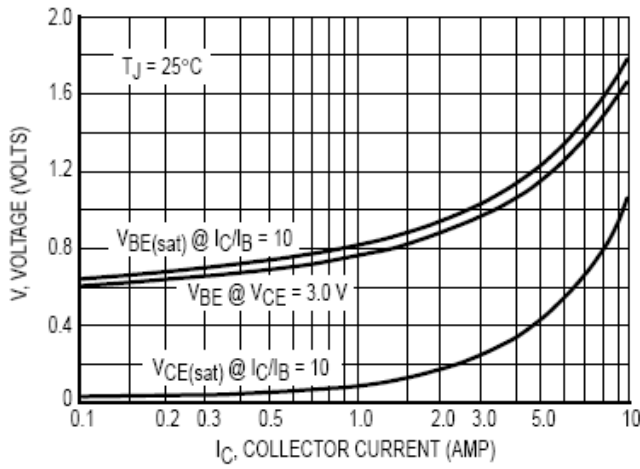


Figure 4. "On" Voltages

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AB

