

Excellent Integrated System Limited

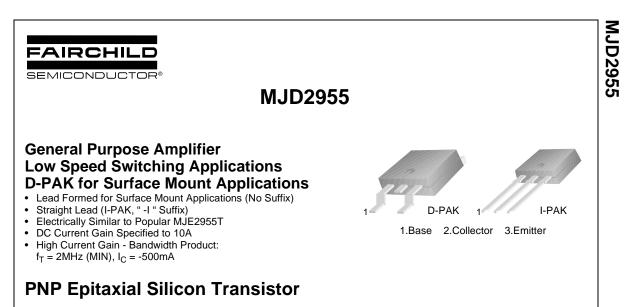
Stocking Distributor

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Fairchild Semiconductor MJD2955TF

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





Absolute Maximum Ratings T_C=25°C unless otherwise noted

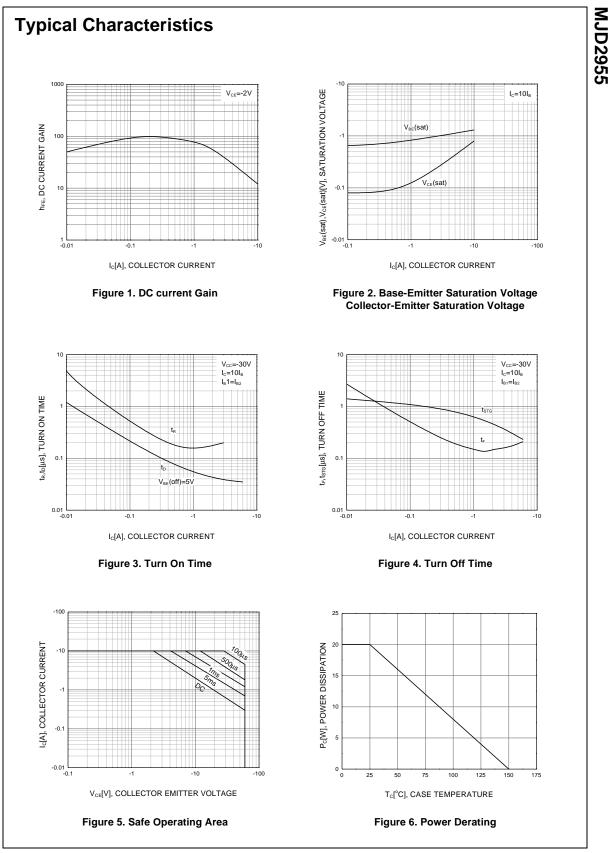
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 70	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO} Emitter-Base Voltage		- 5	V
I _C	Collector Current	- 10	Α
I _B	Base Current	- 6	Α
P _C	Collector Dissipation (T _C =25°C)	20	W
	Collector Dissipation (T _a =25°C)	1.75	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Parameter	Test Condition	Min.	Max.	Units
* Collector-Emitter Sustaining Voltage	I _C = - 30mA, I _B = 0	-60		V
Collector Cut-off Current	$V_{CE} = -30V, I_E = 0$		- 50	μΑ
Collector Cut-off Current	$V_{CB} = -70V, I_E = 0$		- 2	mA
Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 0.5	mA
* DC Current Gain	V _{CE} = - 4V, I _C = - 4A	20	100	
	$V_{CE} = -4V, I_{C} = -10A$	5		
* Collector-Emitter Saturation Voltage	$I_{\rm C} = -4A, I_{\rm B} = -0.4A$		- 1.1	V
	I _C = - 10A, I _B = - 3.3A		- 8	V
* Base-Emitter ON Voltage	$V_{CE} = -4V, I_{C} = -4A$		-1.8	V
Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -500mA$	2		MHz
	* Collector-Emitter Sustaining Voltage Collector Cut-off Current Collector Cut-off Current Emitter Cut-off Current * DC Current Gain * Collector-Emitter Saturation Voltage * Base-Emitter ON Voltage	$\label{eq:constraint} \begin{array}{llllllllllllllllllllllllllllllllllll$	* Collector-Emitter Sustaining Voltage $I_C = -30mA$, $I_B = 0$ -60Collector Cut-off Current $V_{CE} = -30V$, $I_E = 0$ -60Collector Cut-off Current $V_{CB} = -70V$, $I_E = 0$ -60Emitter Cut-off Current $V_{CB} = -70V$, $I_E = 0$ -60* DC Current Gain $V_{CE} = -4V$, $I_C = -4A$ 20* Collector-Emitter Saturation Voltage $I_C = -4A$, $I_B = -0.4A$ 5* Base-Emitter ON Voltage $V_{CE} = -4V$, $I_C = -4A$ 4	* Collector-Emitter Sustaining Voltage $I_C = -30mA$, $I_B = 0$ -60Collector Cut-off Current $V_{CE} = -30V$, $I_E = 0$ -50Collector Cut-off Current $V_{CB} = -70V$, $I_E = 0$ -2Emitter Cut-off Current $V_{EB} = -5V$, $I_C = 0$ -0.5* DC Current Gain $V_{CE} = -4V$, $I_C = -4A$ 20* Collector-Emitter Saturation Voltage $I_C = -4A$, $I_B = -0.4A$ -1.1 $I_C = -10A$, $I_B = -3.3A$ -8* Base-Emitter ON Voltage $V_{CE} = -4V$, $I_C = -4A$ -1.8

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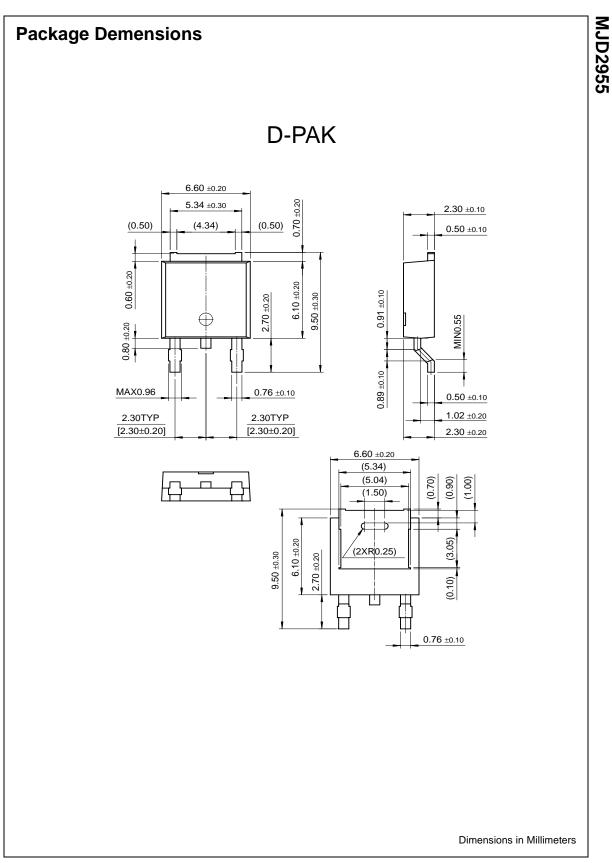




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