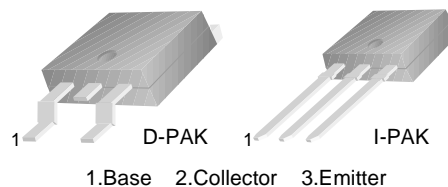


# MJD2955

MJD2955

## General Purpose Amplifier Low Speed Switching Applications D-PAK for Surface Mount Applications

- Lead Formed for Surface Mount Applications (No Suffix)
- Straight Lead (I-PAK, "-I" Suffix)
- Electrically Similar to Popular MJE2955T
- DC Current Gain Specified to 10A
- High Current Gain - Bandwidth Product:  
 $f_T = 2\text{MHz (MIN)}, I_C = -500\text{mA}$



## PNP Epitaxial Silicon Transistor

### Absolute Maximum Ratings $T_C=25^\circ\text{C}$ 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	A
$I_B$	Base Current	- 6	A
$P_C$	Collector Dissipation ( $T_C=25^\circ\text{C}$ )	20	W
	Collector Dissipation ( $T_a=25^\circ\text{C}$ )	1.75	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature	- 55 ~ 150	$^\circ\text{C}$

### Electrical Characteristics $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
$V_{CEO(sus)}$	* Collector-Emitter Sustaining Voltage	$I_C = - 30\text{mA}, I_B = 0$	-60		V
$I_{CEO}$	Collector Cut-off Current	$V_{CE} = - 30\text{V}, I_E = 0$		- 50	$\mu\text{A}$
$I_{CBO}$	Collector Cut-off Current	$V_{CB} = - 70\text{V}, I_E = 0$		- 2	mA
$I_{EBO}$	Emitter Cut-off Current	$V_{EB} = - 5\text{V}, I_C = 0$		- 0.5	mA
$h_{FE}$	* DC Current Gain	$V_{CE} = - 4\text{V}, I_C = - 4\text{A}$ $V_{CE} = - 4\text{V}, I_C = - 10\text{A}$	20 5	100	
$V_{CE(sat)}$	* Collector-Emitter Saturation Voltage	$I_C = - 4\text{A}, I_B = - 0.4\text{A}$		- 1.1	V
		$I_C = - 10\text{A}, I_B = - 3.3\text{A}$		- 8	V
$V_{BE(on)}$	* Base-Emitter ON Voltage	$V_{CE} = - 4\text{V}, I_C = - 4\text{A}$		-1.8	V
$f_T$	Current Gain Bandwidth Product	$V_{CE} = - 10\text{V}, I_C = - 500\text{mA}$	2		MHz

\* Pulse Test:  $PW \leq 300\text{ms}$ , Duty Cycle  $\leq 2\%$

# Typical Characteristics

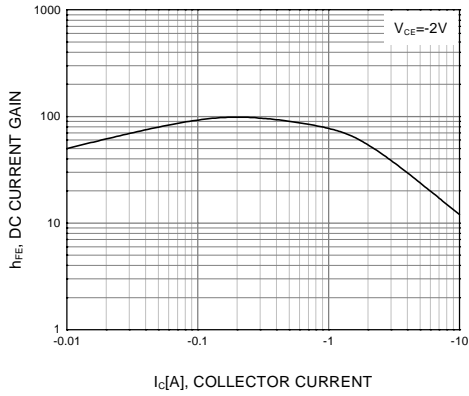


Figure 1. DC current Gain

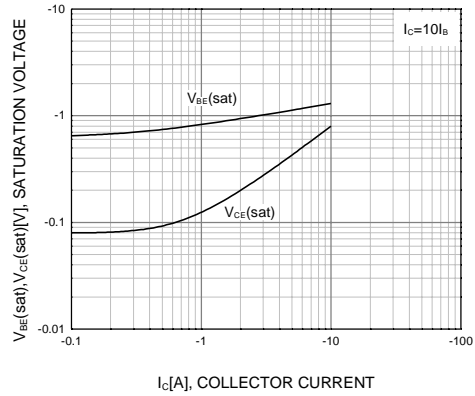


Figure 2. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

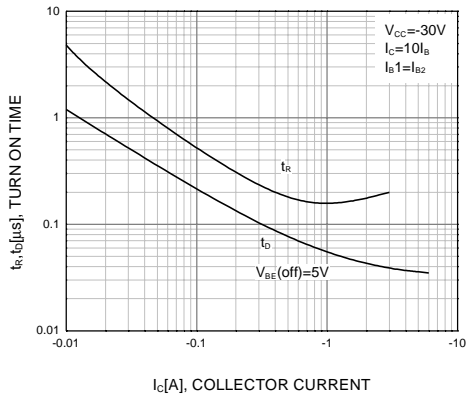


Figure 3. Turn On Time

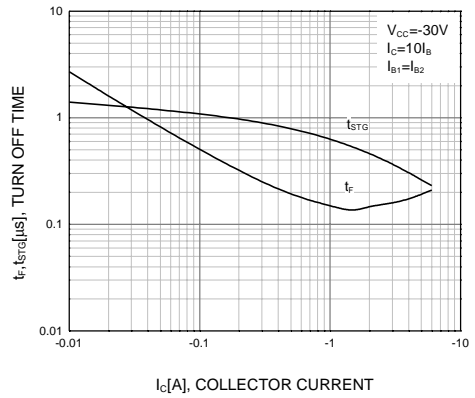


Figure 4. Turn Off Time

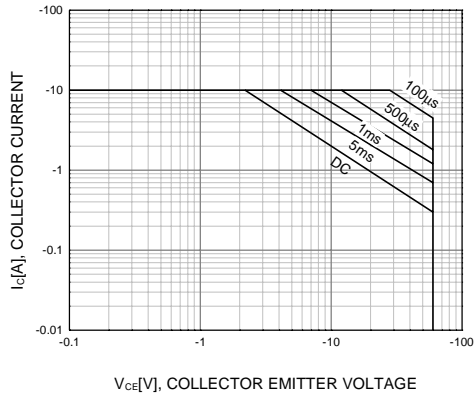


Figure 5. Safe Operating Area

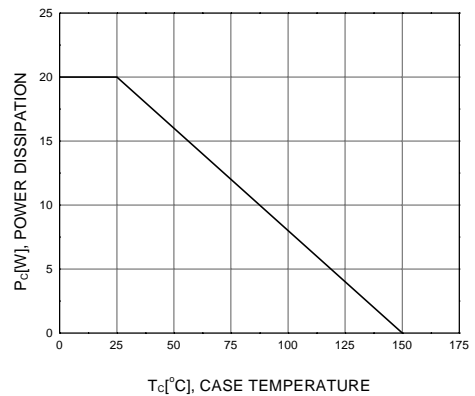
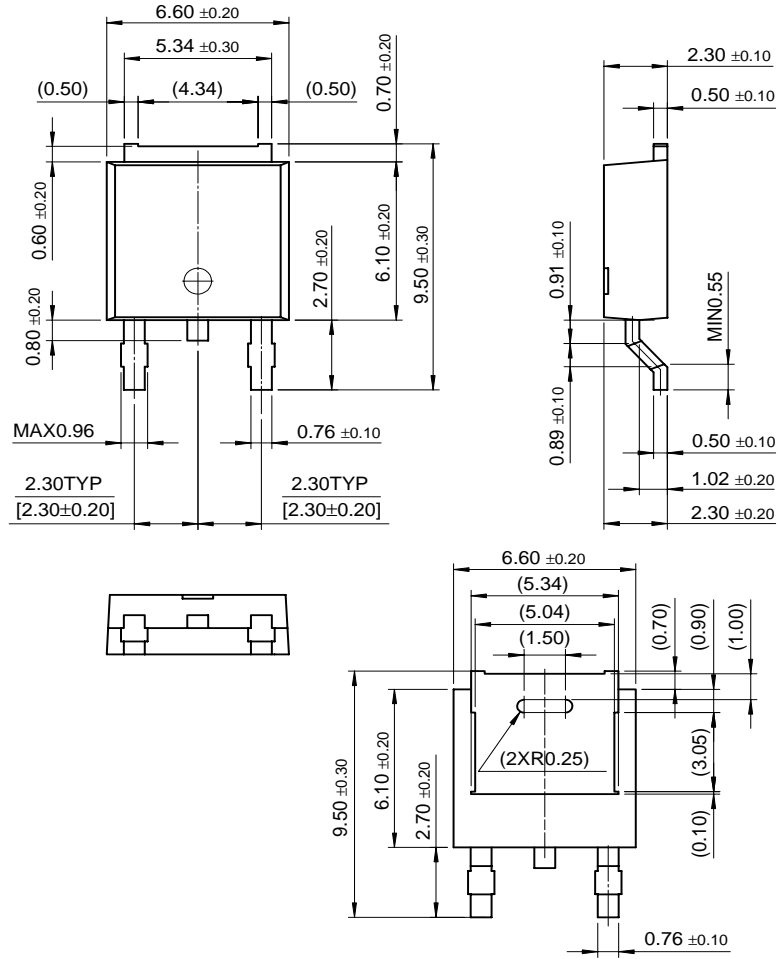


Figure 6. Power Derating

# Package Dimensions

## D-PAK



Dimensions in Millimeters

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Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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## MJD2955

PNP Epitaxial Silicon Transistor

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### Features


**General Purpose Amplifier**  
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**BUY**

Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
MJD2955TF	Full Production	 Full Production	\$0.306	<a href="#">TO-252(DPAK)</a>	2	TAPE REEL	Line 1: \$Y (Fairchild logo) &Z (Asm. Plant Code) &4 (4-Digit Date Code) Line 2: MJD Line 3: 2955

\* Fairchild 1,000 piece Budgetary Pricing

\*\* A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a [Fairchild distributor](#) to obtain samples



Indicates product with Pb-free second-level interconnect. For more information [click here](#).

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