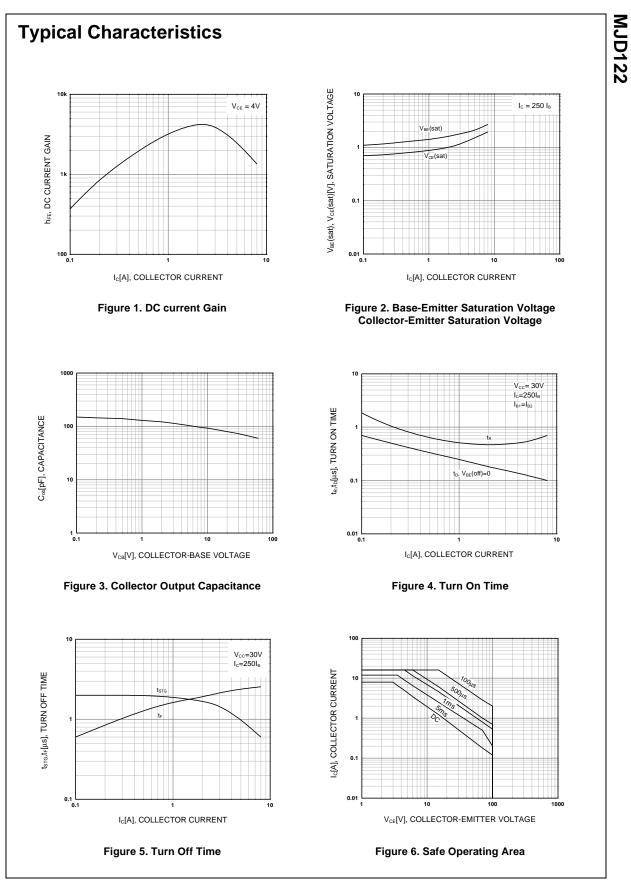


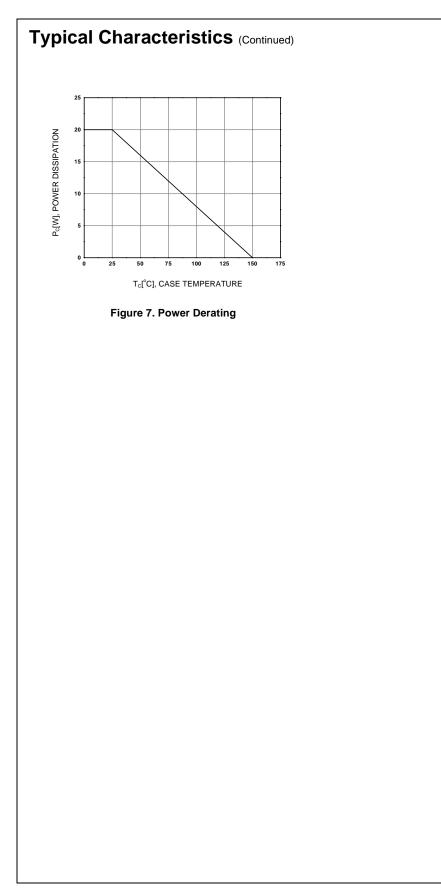
Symbol	Parameter	Test Condition	Min.	Max.	Units
V <sub>CEO</sub> (sus)	*Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 30mA, I <sub>B</sub> = 0	100		V
I <sub>CEO</sub>	Collector Cut-off Current	V <sub>CE</sub> = 50V, I <sub>B</sub> =0		10	μΑ
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = 100V, I_E = 0$		10	μA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$		2	mA
h <sub>FE</sub>	*DC Current Gain	$V_{CE} = 4V, I_C = 4A$ $V_{CE} = 4V, V_{EB} = 8A$	1000 100	12K	
V <sub>CE</sub> (sat)	*Collector-Emitter Saturation Voltage	$I_C = 4A$ , $I_B = 16mA$ $I_C = 8A$ , $I_B = 80mA$		2 4	V V
V <sub>BE</sub> (sat)	*Base-Emitter Saturation Voltage	I <sub>C</sub> = 8A, I <sub>B</sub> = 80mA		4.5	V
V <sub>BE</sub> (on)	*Base-Emitter ON Voltage	$V_{CE} = 4V, I_C = 4A$		2.8	V
C <sub>ob</sub>	Output Capacitance	$V_{CB} = 10V, I_E = 0$ f= 0.1MHz		200	pF

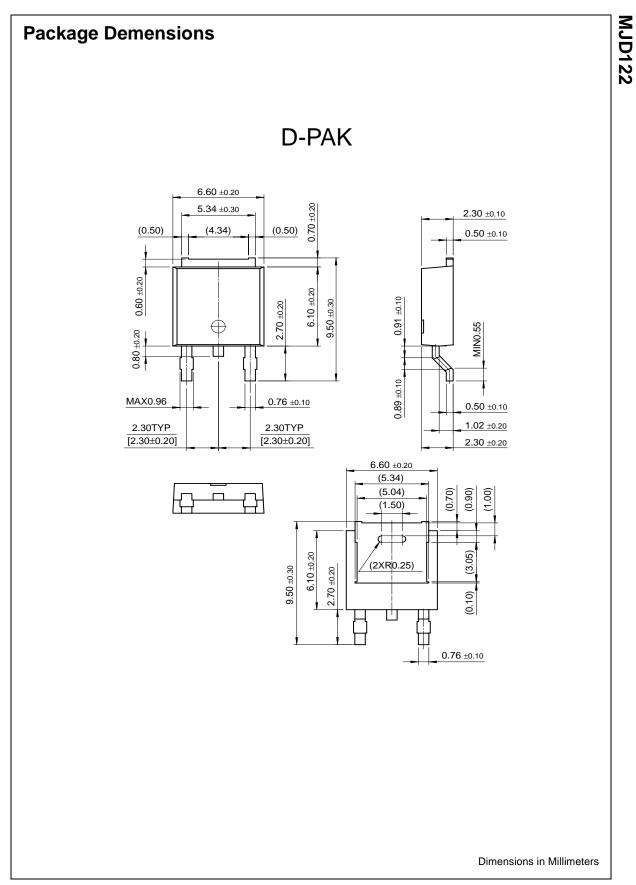
\* Pulse Test: PW≤300µs, Duty Cycle≤2%



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

### **PRODUCT STATUS DEFINITIONS**

#### **Definition of Terms**

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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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Analog and Mixed Signal Discrete Interface	Contents Features   Product status/pricing/packaging	Datasheet Download this datasheet	Request samples Dotted line How to order products Dotted line Product Change Notices
<u>Logic</u> <u>Microcontrollers</u> <u>Non-Volatile</u>	Features	PDF	(PCNs) Dotted line Support
<u>Memory</u> <u>Optoelectronics</u> <u>Markets and</u>	D-PAK for Surface Mount Applications	e-mail this datasheet [E-	Dotted line Distributor and field sales representatives
applications New products Product selection and parametric search Cross-reference search	<ul> <li>High DC Current Gain</li> <li>Built-in a Damper Diode at E-C</li> <li>Lead Formed for Surface Mount Applications (No Suffix)</li> <li>Straight Lead (I-PAK, "-I" Suffix)</li> <li>Electrically Similar to Popular TIP122</li> <li>Complement to MJD127</li> </ul>	—This page <u>Print version</u>	Dotted line Quality and reliability Dotted line Design tools

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Product status/pricing/packaging

4	Product	Product status	Pricing*	Package type	Leads	Packing method
	MJD122TF	Full Production	\$0.336	TO-252(DPAK)	2	TAPE REEL

\* 1,000 piece Budgetary Pricing

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