imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FAIRCHILD

SEMICONDUCTOR®

FJNS7565

For Output Amplifier of Electronic Flash Unit

- Low Collector-Emitter Saturation Voltage
- High Performance at Low Supply Voltage



1.Emitter 2. Collector 3. Base

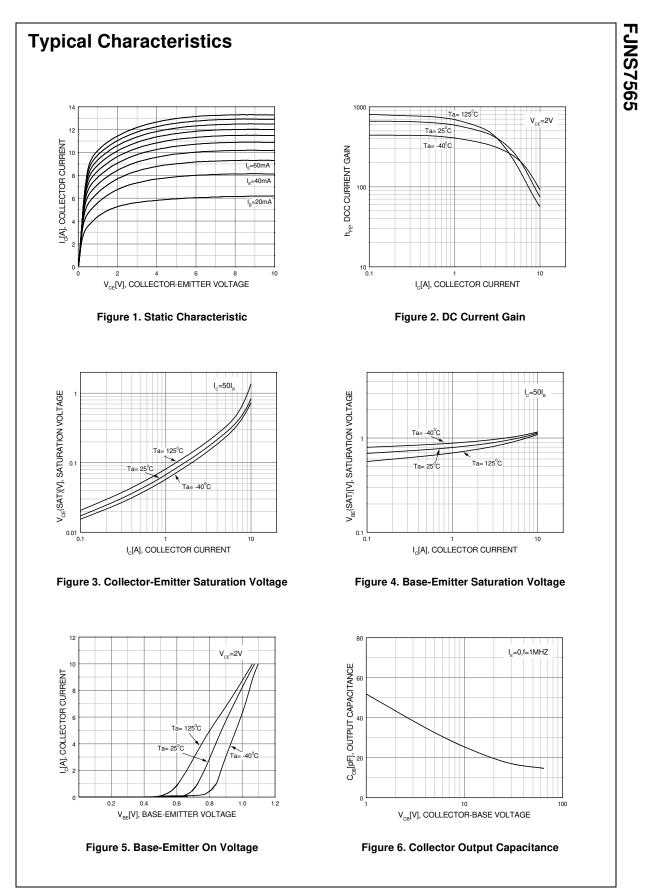
NPN Epitaxial Silicon Transistor

Absolute Maximum	Ratings T _C =25°C unless otherwise note	ed
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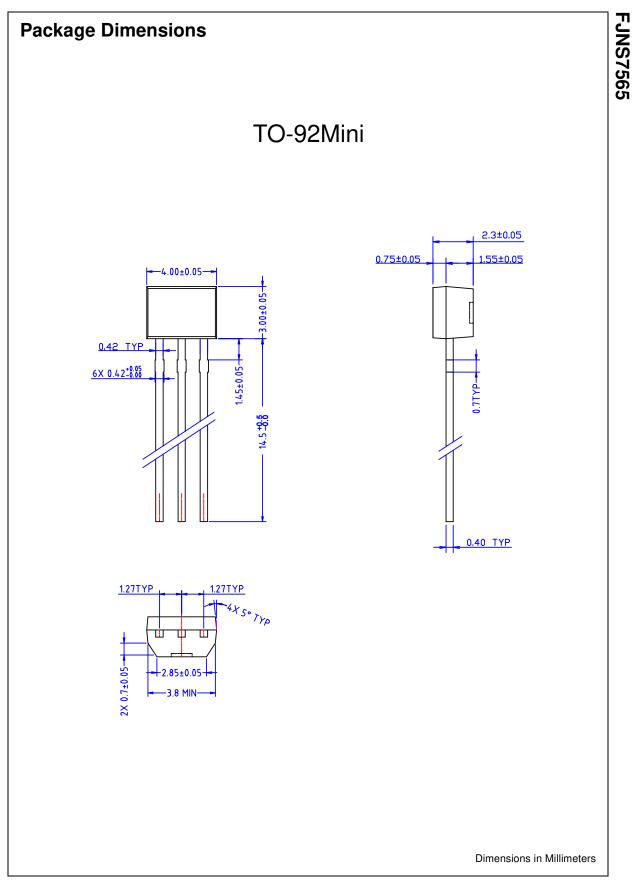
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	15	V	
V _{CEO}	Collector-Emitter Voltage	10	V	
V _{EBO}	Emitter-Base Voltage	7	V	
I _C	Collector Current	5	Α	
P _C	Collector Dissipation	0.55	W	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units	
BV _{CBO}	Collector-Base Voltage	$I_{\rm C} = 10 \mu {\rm A}, I_{\rm E} = 0$	15			V	
BV _{CEO}	Collector-Emitter Voltage	$I_{\rm C} = 1 {\rm mA}, I_{\rm B} = 0$	10			V	
BV _{EBO}	Emitter Base Voltage	$I_{\rm C} = 10 \mu {\rm A}, I_{\rm C} = 0$	7			V	
I _{CBO}	Collector Cut-off Current	$V_{CB} = 15V, I_E = 0$			100	nA	
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$			100	nA	
h _{FE1} h _{FE2} h _{FE3}	DC Current Gain	$V_{CE} = 2V, I_C = 0.5A$ $V_{CE} = 2V, I_C = 2A$ $V_{CE} = 2V, I_C = 5A$	450 300 150		800		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A, I _B = 60mA			0.45	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_{\rm C} = 3A, I_{\rm B} = 60 {\rm mA}$			1.5	V	
C _{ob}	Collector Output Capacitance	$V_{CB} = 20V, I_E = 0, f = 1MHz$		20		pF	



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Definition of Terms

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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.
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