

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

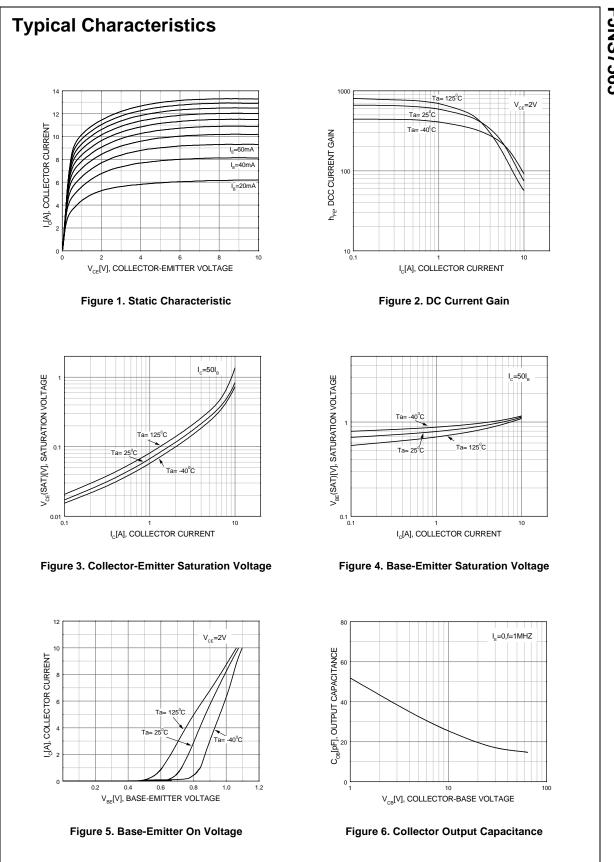
NPN Epitaxial Silicon Transistor

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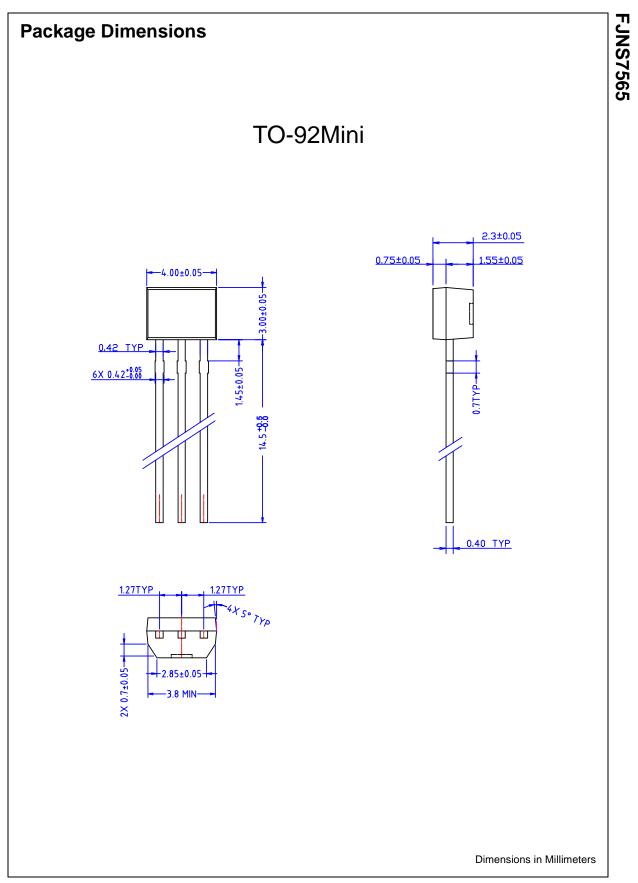
Symbol Parameter		Ratings	Units	
V _{CBO}	Collector-Base Voltage	15	V	
V _{CEO}	Collector-Emitter Voltage	10	V	
V _{EBO}	Emitter-Base Voltage	7	V A	
c	Collector Current	5		
C Collector Dissipation		0.55	W	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

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	$I_{\rm C} = 10\mu A, I_{\rm C} = 0$	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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