



NPN Epitaxial Silicon Transistor

Absolute Maximum	Ratings T _a =25°C unles	s otherwise noted
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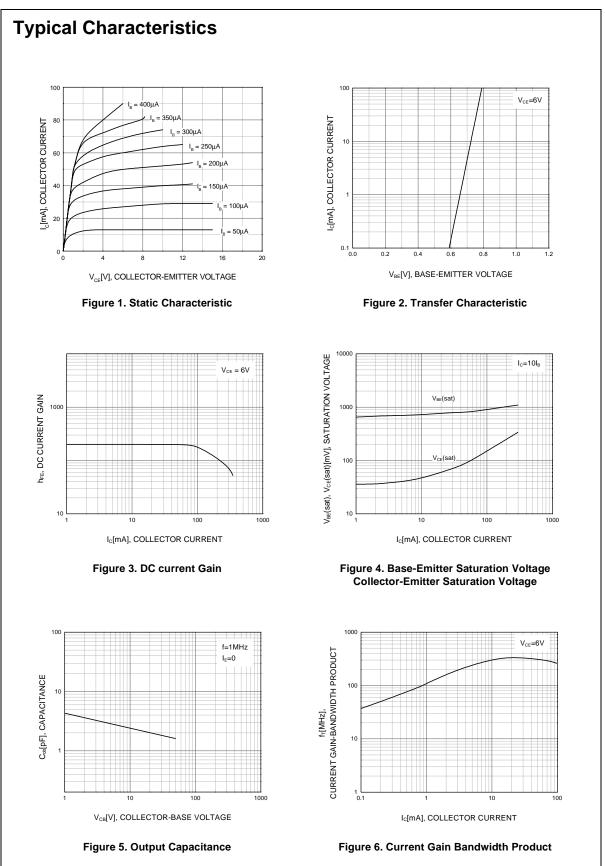
Symbol Parameter		Value	Units	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	150	mA	
I _B	Base Current	50	mA	
P _C	Collector Power Dissipation	400	mW	
TJ	Junction Temperature	125	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics Ta=25°C unless otherwise noted

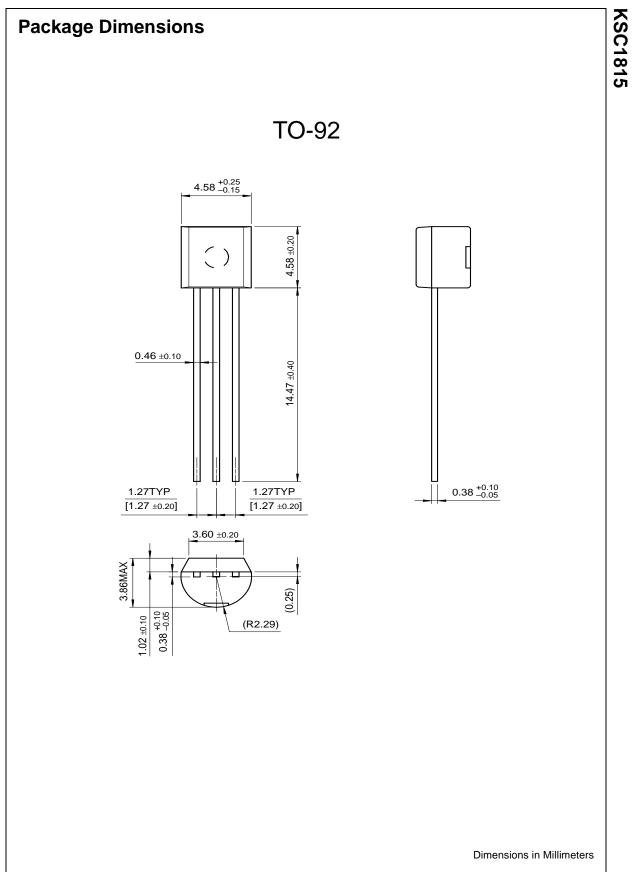
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} =60V, I _E =0			0.1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =5V, I _C =0			0.1	μΑ
h _{FE1}	DC Current Gain	V _{CE} =6V, I _C =2mA	70		700	
h _{FE2}		V _{CE} =6V, I _C =150mA	25			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =100mA, I _B =10mA		0.1	0.25	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =100mA, I _B =10mA			1.0	V
f _T	Current Gain Bandwidth Product	V _{CE} =10V, I _C =1mA	80	-	60	MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz	-	2.0	3.0	pF
NF	Noise Figure	$V_{CE}=6V, I_C=0.1mA$ $R_S=10k\Omega, f=1Hz$		1.0	1.0	dB

h_{FE} Classification

Classification	0,504	Y	GR	L
h _{FE1}	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700



KSC1815



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