

KSD1944

High Gain Power Transistor



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

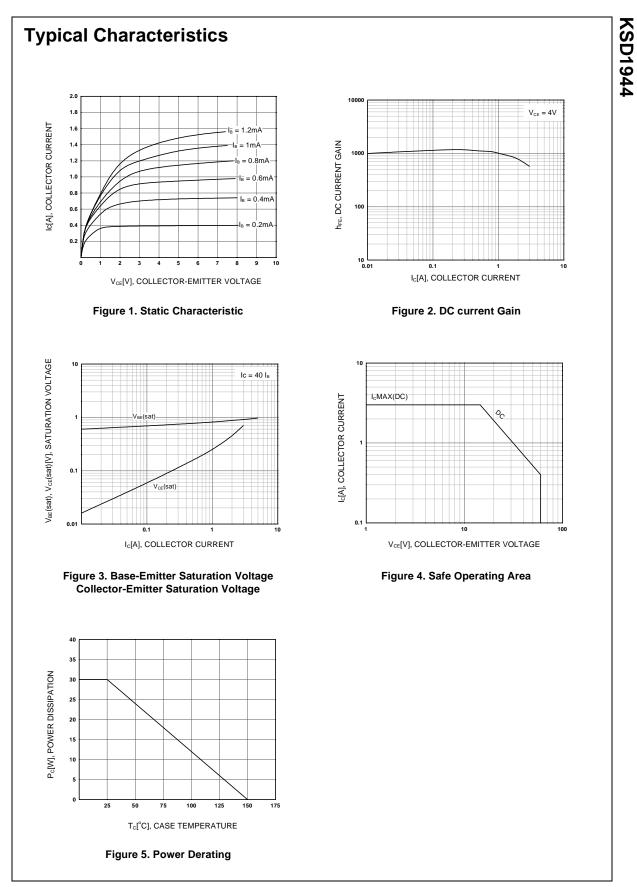
Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	8	V
I _C	Collector Current	3	A
P _C	Collector Current (T _C =25°C)	30	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

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

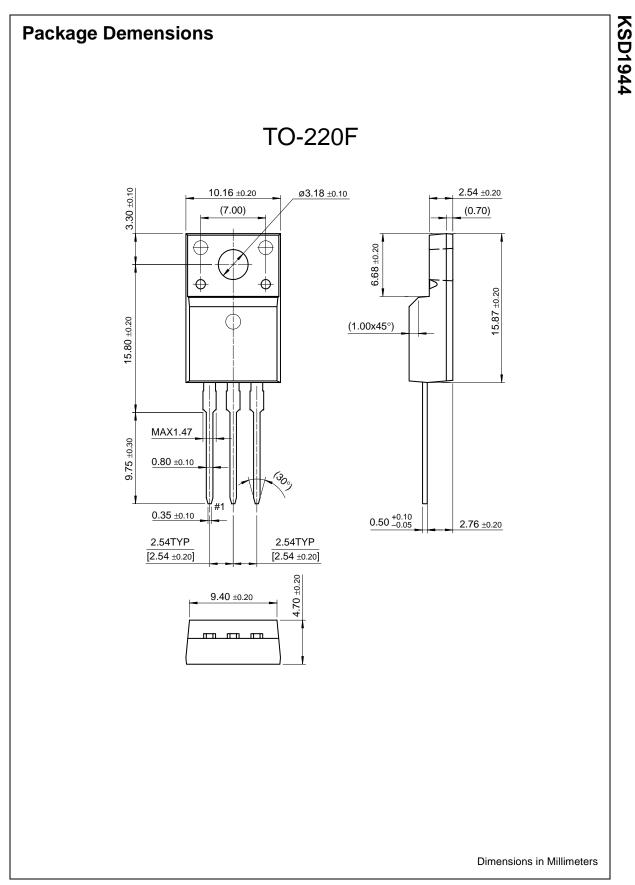
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA, I _B = 0	60		V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 80V, I_E = 0$		100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 8V, I_{C} = 0$		10	μΑ
h _{FE}	DC Current Gain	$V_{CE} = 4V, I_{C} = 0.5A$	400	2000	
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_{\rm C} = 2A, I_{\rm B} = 0.05A$		1.5	V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = 2A, I_{\rm B} = 0.05A$		1	V

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