

Excellent Integrated System Limited

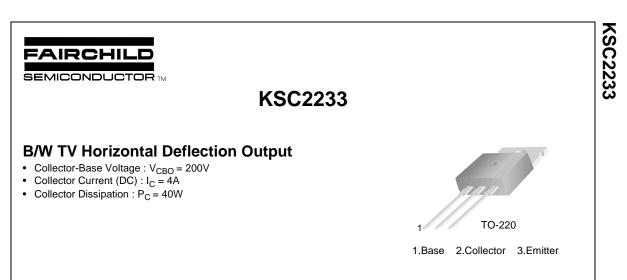
Stocking Distributor

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Fairchild Semiconductor KSC2233

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

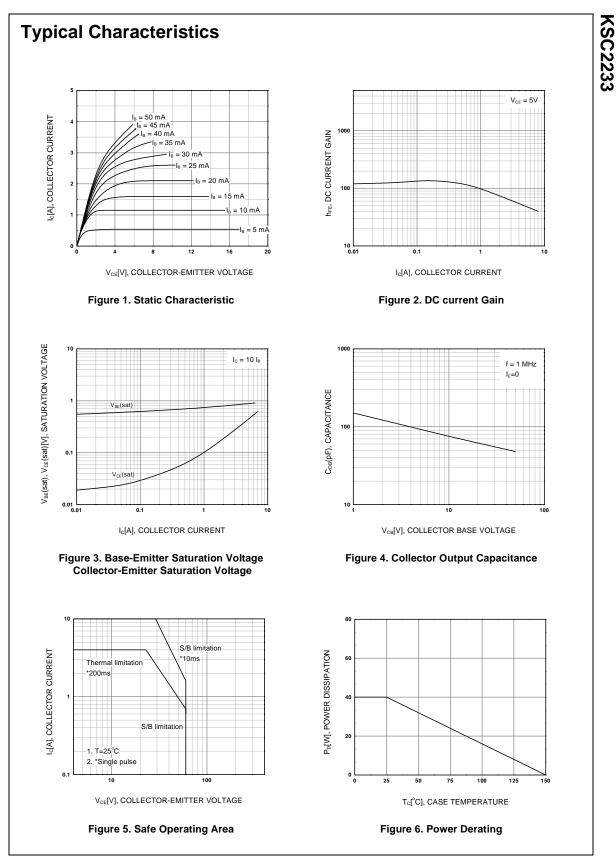
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	200	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	4	Α	
P _C	Collector Dissipation (T _C =25°C)	40	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ +150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = 1$ mA, $I_{\rm E} = 0$	200			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 20mA, I _B =0	60			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA, I _C = 0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 170V, I _E = 0			10	μΑ
h _{FE1}	DC Current Gain	V _{CE} = 5V, I _C = 1A	30		150	
h _{FE2}		$V_{CE} = 5V, I_{C} = 4A$	20	40		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = 4$ A, $I_{\rm B} = 0.4$ A			1	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_{\rm C} = 4$ A, $I_{\rm B} = 0.4$ A			1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = 5V, I _C = 0.5A		10		MHz

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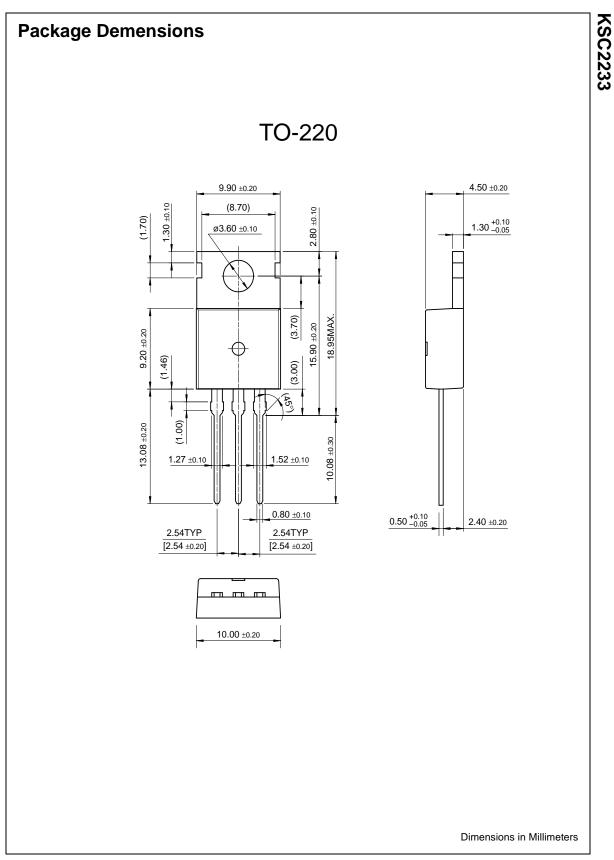




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