

KSC2233

B/W TV Horizontal Deflection Output

Collector-Base Voltage: V_{CBO} = 200V
 Collector Current (DC): I_C = 4A
 Collector Dissipation: P_C = 40W



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	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
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ +150	°C

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

Parameter	Test Condition	Min.	Тур.	Max.	Units
Collector-Base Breakdown Voltage	$I_{C} = 1 \text{mA}, I_{E} = 0$	200			V
Collector-Emitter Breakdown Voltage	$I_C = 20 \text{mA}, I_B = 0$	60			V
Emitter-Base Breakdown Voltage	$I_E = 1 \text{mA}, I_C = 0$	5			V
Collector Cut-off Current	$V_{CB} = 170 \text{ V}, I_{E} = 0$			10	μΑ
DC Current Gain	$V_{CE} = 5V, I_{C} = 1A$	30		150	
	$V_{CE} = 5V, I_{C} = 4A$	20	40		
Collector-Emitter Saturation Voltage	$I_C = 4A, I_B = 0.4A$			1	V
Base-Emitter Saturation Voltage	$I_C = 4A, I_B = 0.4A$			1.5	V
Current Gain Bandwidth Product	$V_{CE} = 5V, I_{C} = 0.5A$		10		MHz
	Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage Collector Cut-off Current DC Current Gain Collector-Emitter Saturation Voltage Base-Emitter Saturation Voltage	$ \begin{array}{llllllllllllllllllllllllllllllllllll$			

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Typical Characteristics

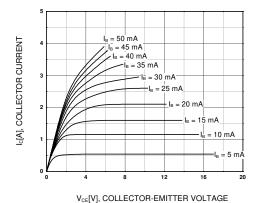


Figure 1. Static Characteristic

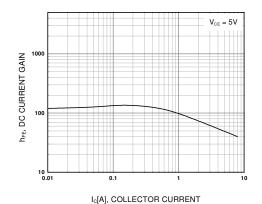


Figure 2. DC current Gain

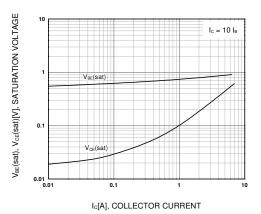


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

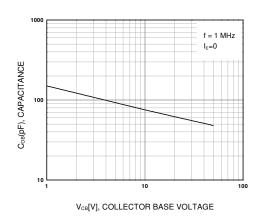


Figure 4. Collector Output Capacitance

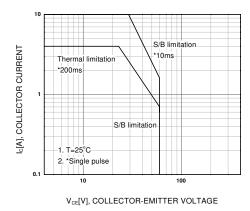


Figure 5. Safe Operating Area

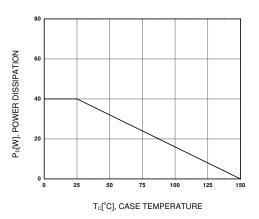
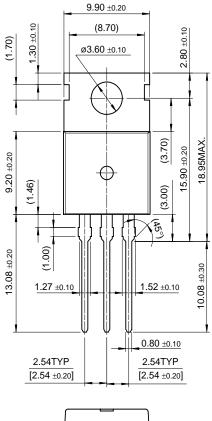
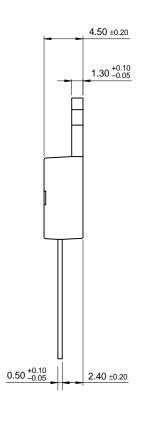


Figure 6. Power Derating

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TO-220





10.00 ±0.20

Dimensions in Millimeters

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