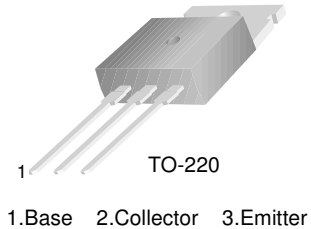


KSD363

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B/W TV Horizontal Deflection Output

- Collector-Base Voltage : $V_{CBO}=300V$
- Collector Current : $I_C=6A$
- Collector Dissipation : $P_C=40W(T_C=25^{\circ}C)$



NPN Epitaxial Silicon Transistor

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	120	V
V_{EBO}	Emitter-Base Voltage	8	V
I_C	Collector Current	6	A
P_C	Collector Dissipation ($T_C=25^{\circ}C$)	40	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{STG}	Storage Temperature	- 55 ~ 150	$^{\circ}C$

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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = 1mA, I_E = 0$	300			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 20mA, I_B = 0$	120			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = 1mA, I_C = 0$	8			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = 250V, I_E = 0$			1	mA
h_{FE}	DC Current Gain	$V_{CE} = 5V, I_C = 1A$	40		240	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 1A, I_B = 0.1A$			1	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = 1A, I_B = 0.1A$			1.5	V
f_T	Current Gain Bandwidth Product	$V_{CE} = 5V, I_C = 0.5A$		10		MHz

h_{FE} Classification

Classification	R	O	Y
h_{FE}	40 ~ 80	70 ~ 140	120 ~ 240

Typical Characteristics

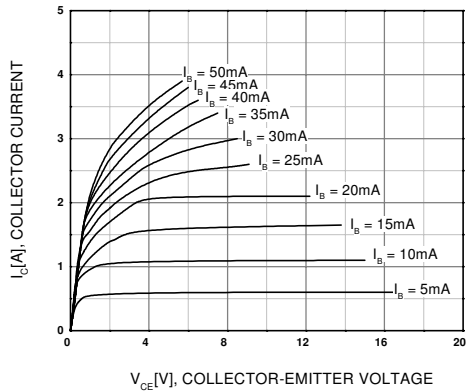


Figure 1. Static Characteristic

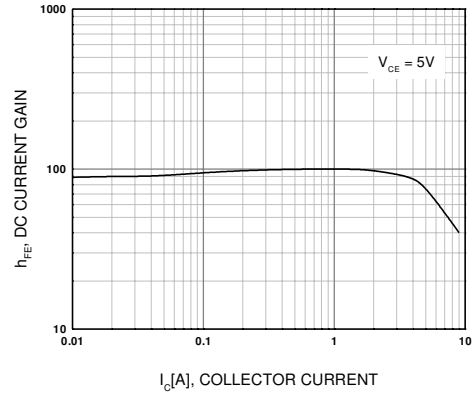


Figure 2. DC current Gain

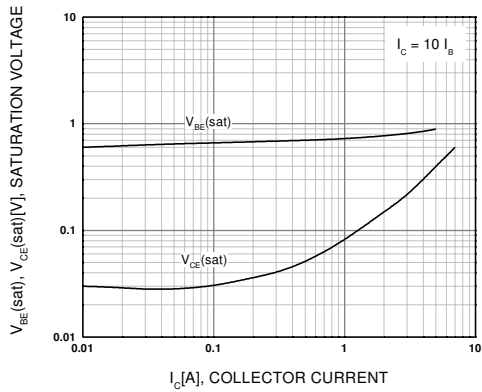


Figure 3. Base-Emitter Saturation Voltage
Collect-Emmitter Saturation Voltage

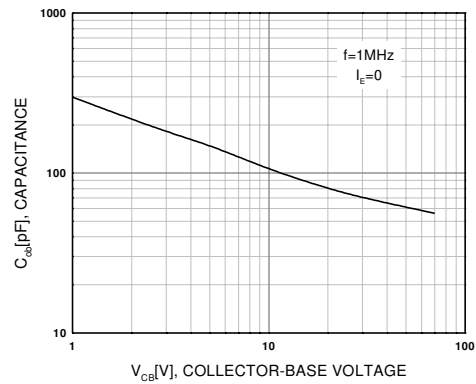


Figure 4. Collector Output Capacitance

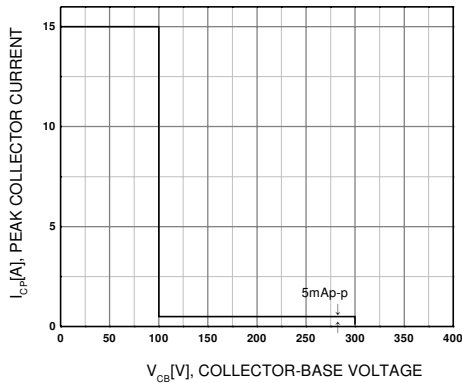


Figure 5. Safe Operating (On Horizontal
Deflection Output Circuit)

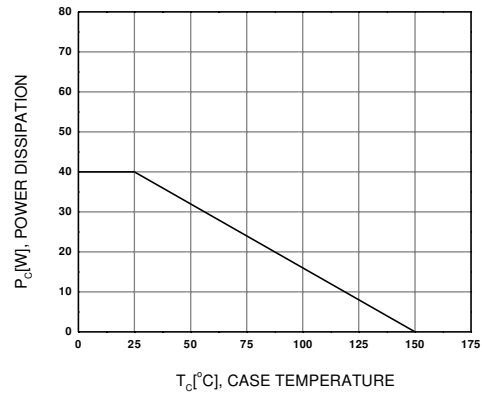


Figure 6. Power Derating

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[illegible]

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