

## SEMICONDUCTOR TECHNICAL DATA

### KTC3231

TRIPLE DIFFUSED NPN TRANSISTOR

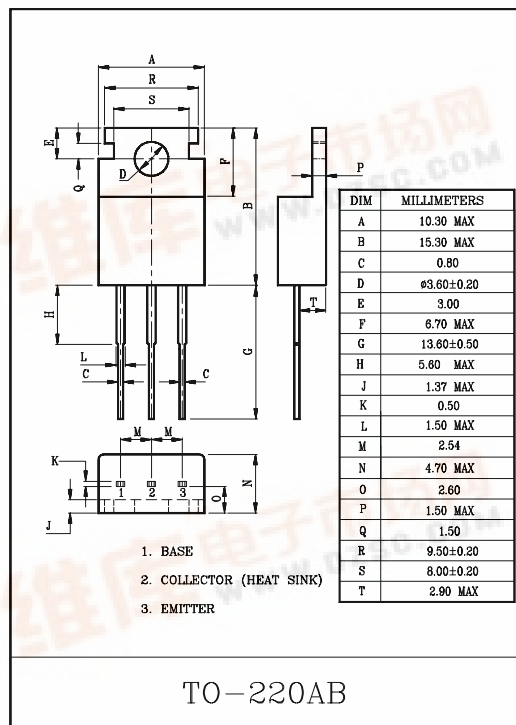
B/W TV HORIZONTAL DEFLECTION OUTPUT APPLICATION.

#### FEAUTRES

- Large Collector Current Capability.
- Large Collector Power Dissipation Capability.

#### MAXIMUM RATINGS (Ta=25°C)

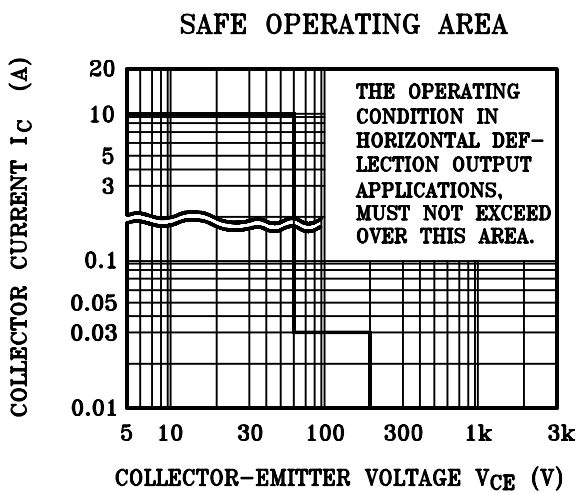
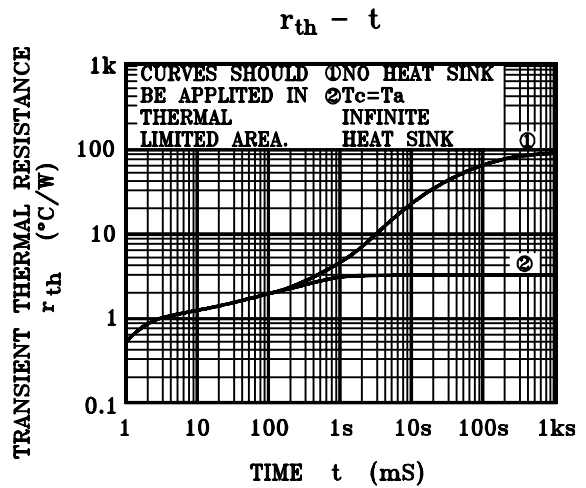
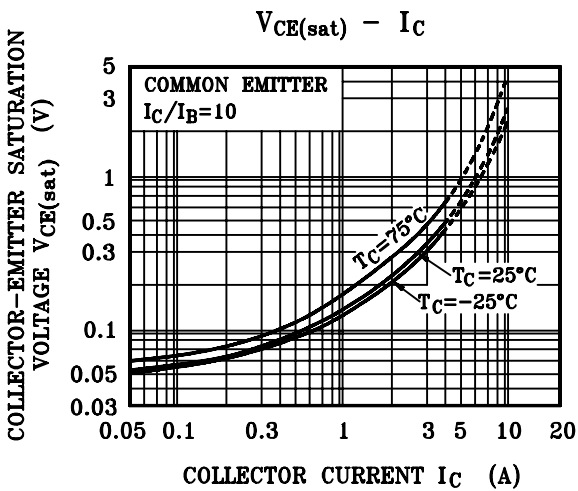
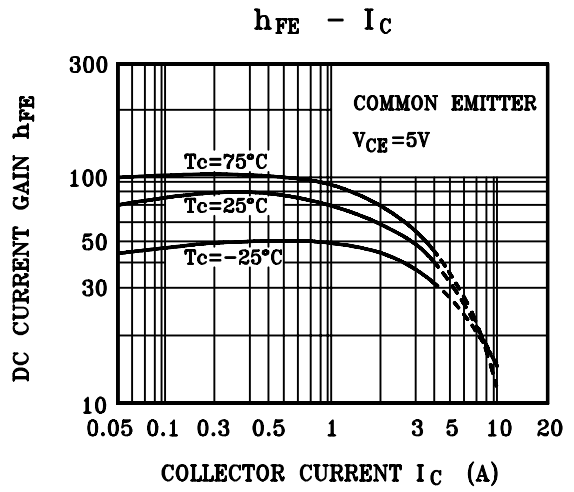
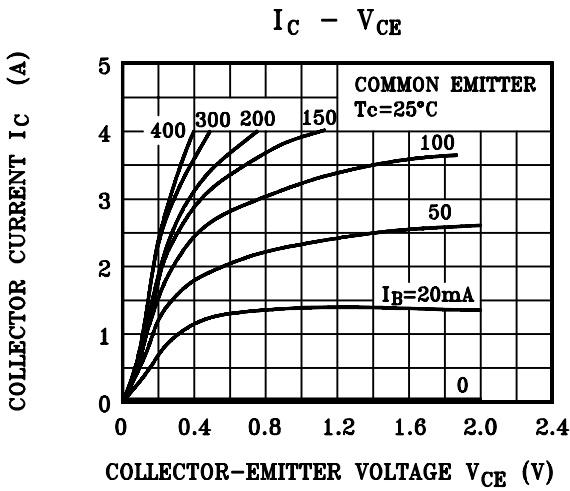
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	$V_{CBO}$	200	V	
Collector-Emitter Voltage	$V_{CEO}$	60	V	
Emitter-Base Voltage	$V_{EBO}$	5	V	
Collector Current	$I_C$	4	A	
	$I_{CP}$	10		
Base Current	$I_B$	1	A	
Collector Power Dissipation	$P_C$	Ta=25°C	2	W
		Tc=25°C	40	
Junction Temperature	$T_j$	150	°C	
Storage Temperature Range	$T_{stg}$	-55~150	°C	



#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=170V, I_E=0$	-	-	10	μA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	10	μA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=5V, I_C=1A$	30	-	150	
	$h_{FE}(2)$	$V_{CE}=5V, I_C=4A$	20	40	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4A, I_B=0.4A$	-	-	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4A, I_B=0.4A$	-	-	1.5	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=0.5A$	-	8.0	-	MHz

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TEST CIRCUIT

