

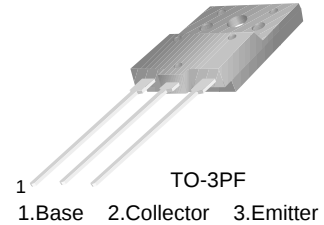
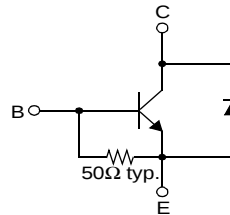
KSC5802D

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High Voltage Color Display Horizontal Deflection Output (Built In Damper Diode)

- High Breakdown Voltage $BV_{CBO}=1500V$
- High Speed Switching : $t_F=0.1\mu s$ (Typ.)
- Wide S.O.A
- For C-Monitor(69KHz)

Equivalent Circuit



NPN Triple Diffused Planar Silicon Transistor

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current (DC)	10	A
I_{CP}	Collector Current (Pulse)	30	A
P_C	Collector Dissipation ($T_C=25^\circ C$)	60	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
I_{CES}	Collector Cut-off Current	$V_{CE} = 1400V, V_{BE}=0$			1	mA
I_{CBO}	Collector Cut-off Current	$V_{CB} = 800V, I_E = 0$			10	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_C = 0$	50		250	mA
h_{FE1} h_{FE2}	DC Current Gain	$V_{CE} = 5V, I_C = 1A$ $V_{CE} = 5V, I_C = 6A$	15 7		40 11.5	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 6A, I_B = 1.5A$			3	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = 6A, I_B = 1.5A$			1.5	V
t_F	Fall Time	$V_{CC} = 200V, I_C = 6A$ $I_{B1} = 1.2A, I_{B2} = - 2.4A$ $R_L = 33.3\Omega$		0.1	0.3	μs

Typical Characteristics

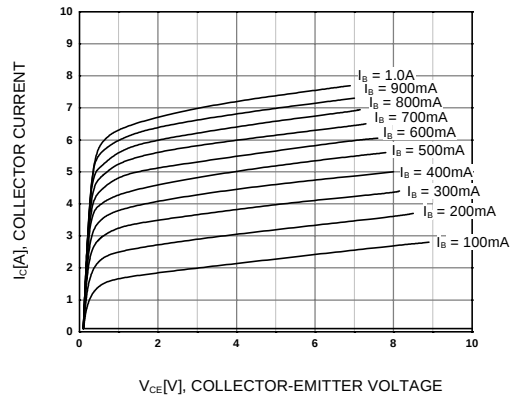


Figure 1. Static Characteristic

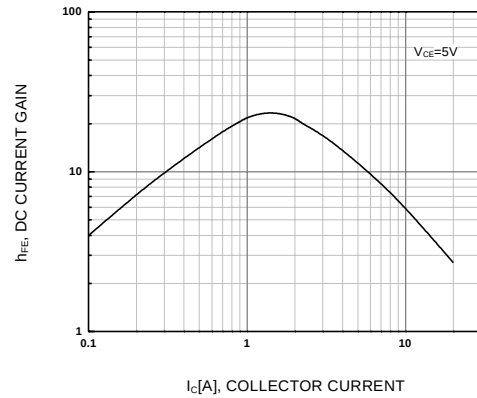


Figure 2. DC current Gain

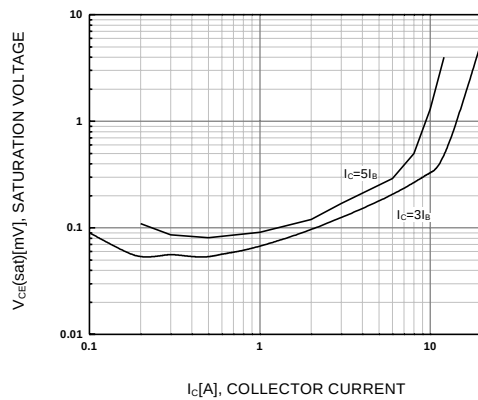


Figure 3. Collector-Emitter Saturation Voltage

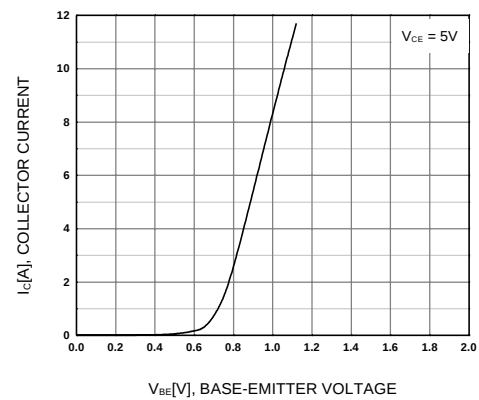


Figure 4. Base-Emitter On Voltage

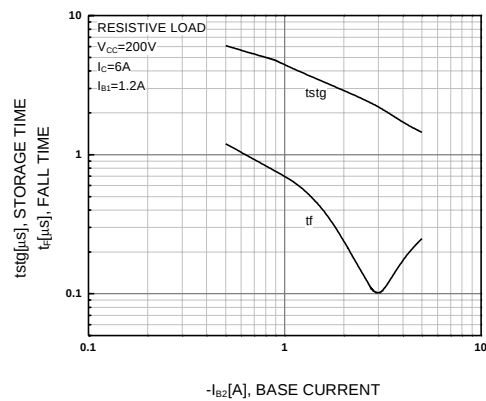


Figure 5. Switching Time

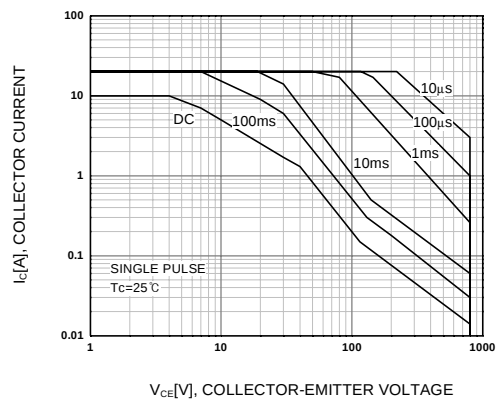


Figure 6. Safe Operating Area

Typical Characteristics (Continued)

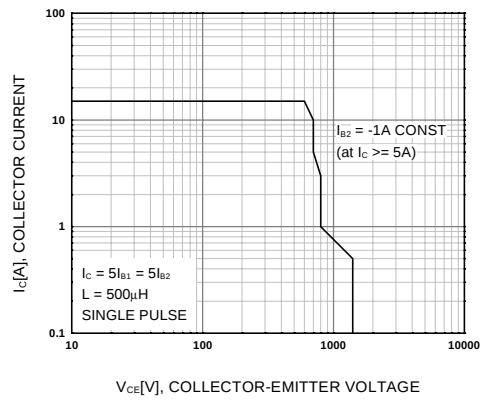


Figure 7. Reverse Bias Safe Operating Area

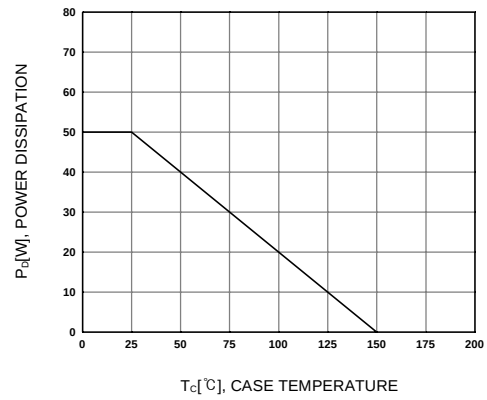


Figure 8. Power Derating

KS5802D

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