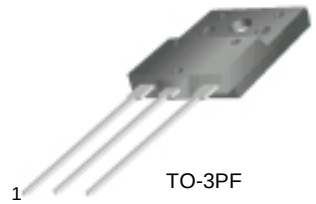
FAIRCHILD
SEMICONDUCTOR TM

KSC5802

High Voltage Color Display Horizontal Deflection Output (No Damper Diode)

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



TO-3PF

1.Base 2.Collector 3.Emitter

NPN Triple Diffused Planar Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

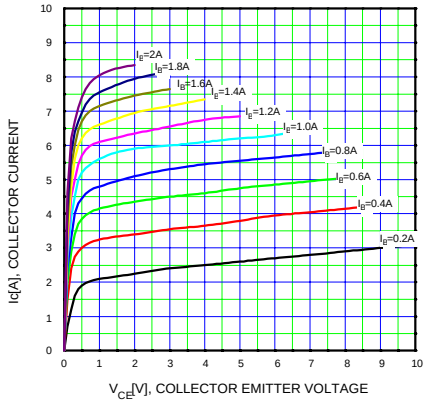
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current (DC)	10	A
I_{CP}	Collector Current (Pulse)	30	A
P_C	Collector Dissipation (T_C=25°C)	60	W
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

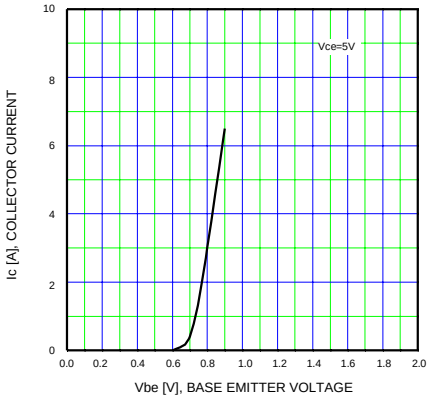
Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
I_{CES}	Collector Cut-off Current	V_{CE} = 1400V, V_{BE}=0			1	mA
I_{CBO}	Collector Cut-off Current	V_{CB} = 800V, I_E = 0			10	uA
I_{EBO}	Emitter Cut-off Current	V_{EB} = 4V, I_C = 0			1	mA
h_{FE1} h_{FE2}	DC Current Gain	V_{CE} = 5V, I_C = 1A V_{CE} = 5V, I_C = 6A	15 7		48 10	
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 = 33.3Ω		0.1	0.3	μs

Typical Characteristics

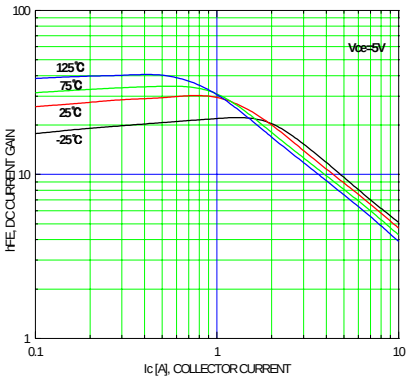
STATIC CHARACTERISTIC



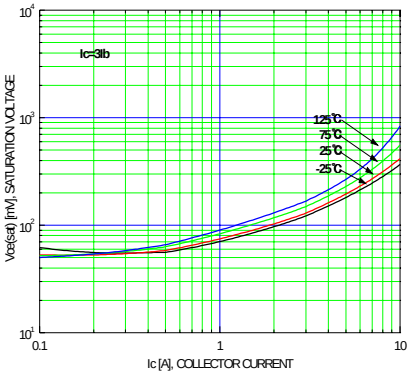
BASE EMITTER ON VOLTAGE



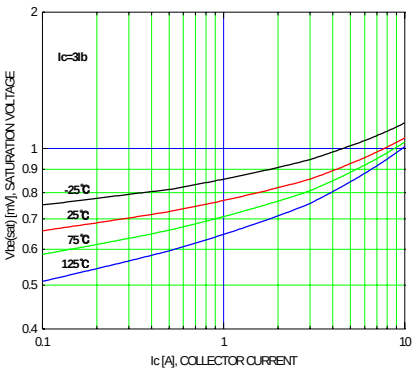
DC CURRENT GAIN



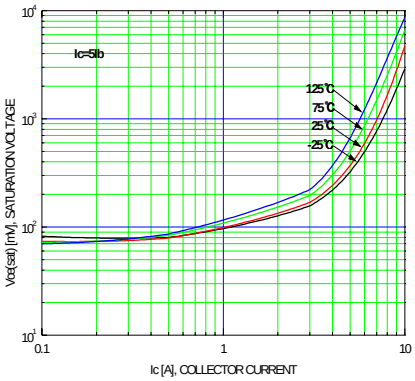
COLLECTOR-EMITTER SATURATION VOLTAGE 1



BASE-EMITTER SATURATION VOLTAGE 1

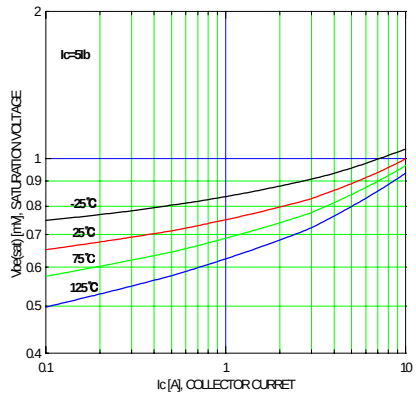


COLLECTOR-EMITTER SATURATION VOLTAGE 2

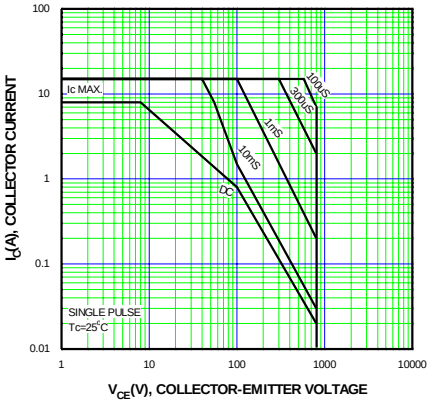


Typical Characteristics (continued)

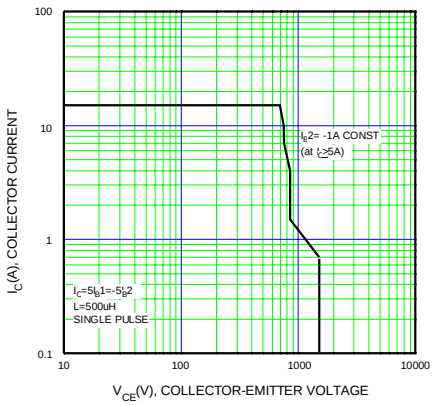
BASE-EMITTER SATURATION VOLTAGE 2



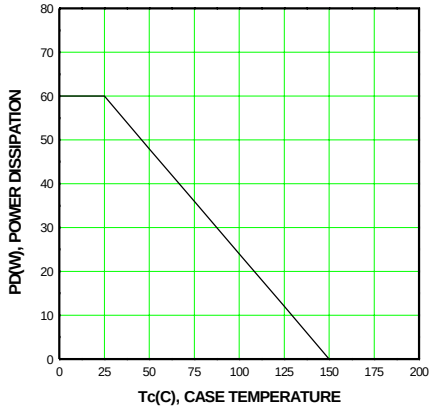
SAFE OPERATING AREA



REVERSE BIAS SAFE OPERATING AREA

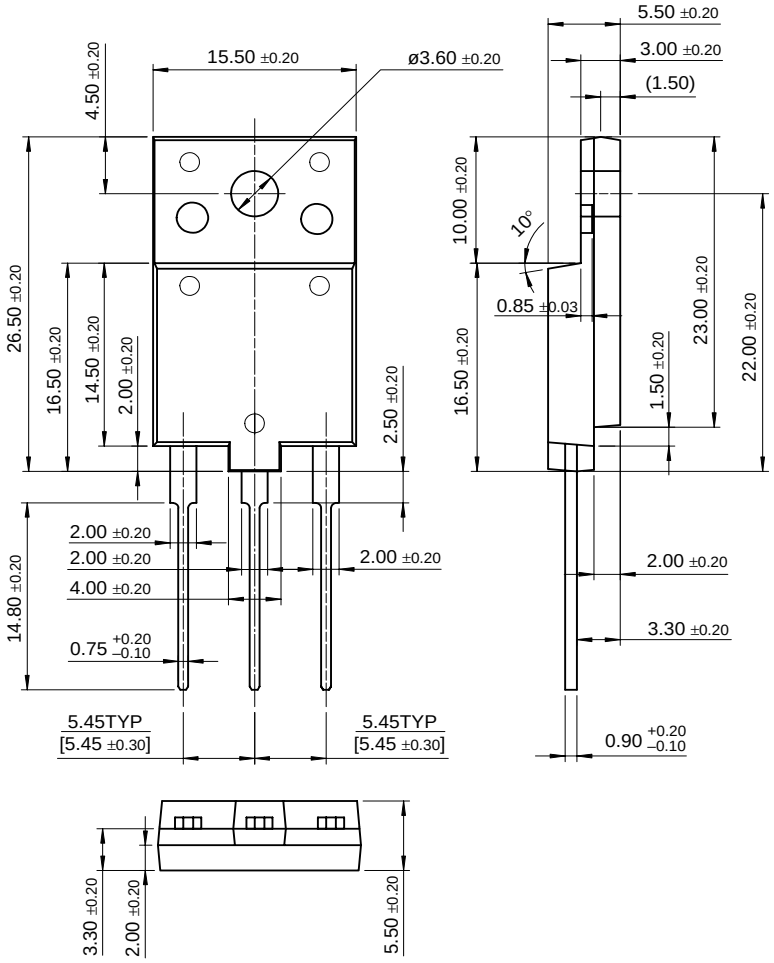


POWER DERATING



Package Dimension

TO-3PF



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PRODUCT STATUS DEFINITIONS

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