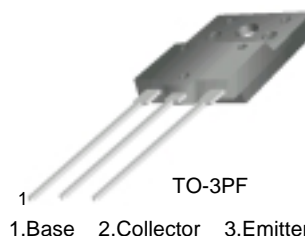


KSC5803

KSC5803

High Voltage Color Display Horizontal Deflection Output (No 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(85KHz)



NPN Triple Diffused Planar Silicon Transistor

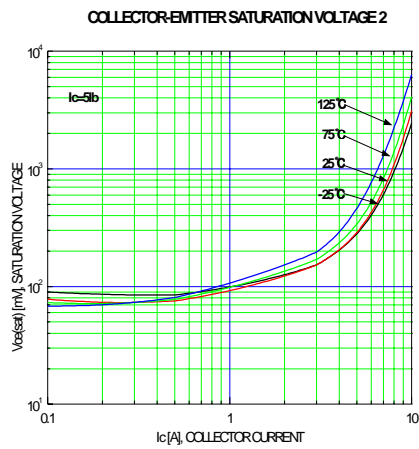
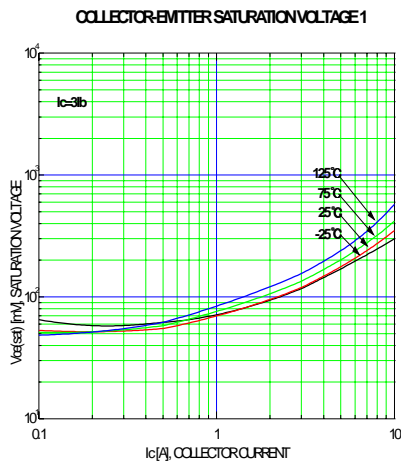
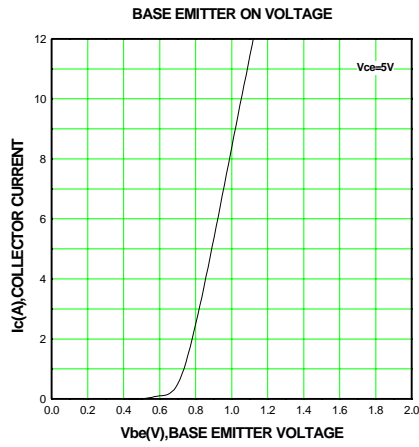
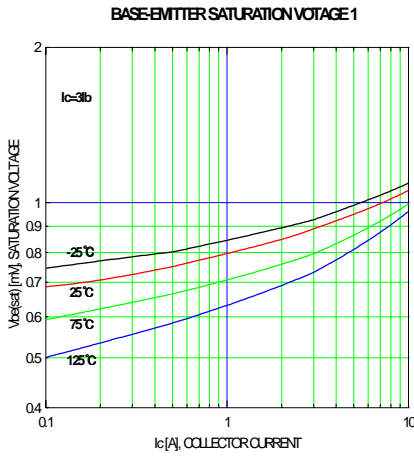
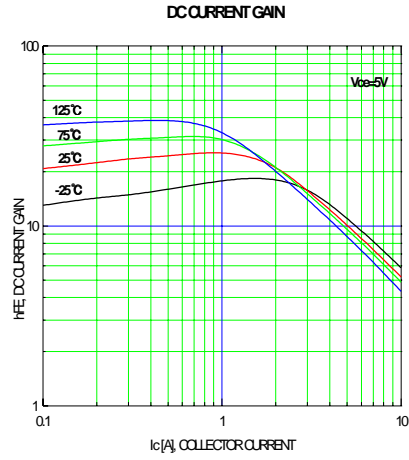
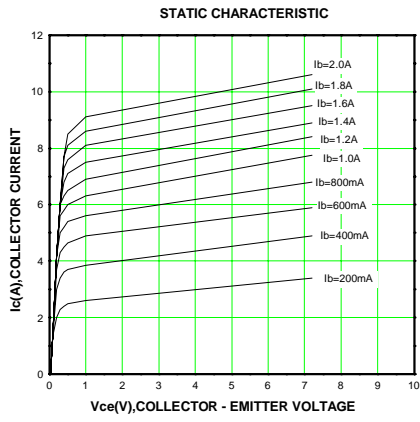
Absolute Maximum Ratings $T_C=25^\circ C$ unless otherwise noted

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)	12	A
I_{CP}	Collector Current (Pulse)	24	A
P_C	Collector Dissipation ($T_C=25^\circ C$)	70	W
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	- 55 ~ 150	$^\circ C$

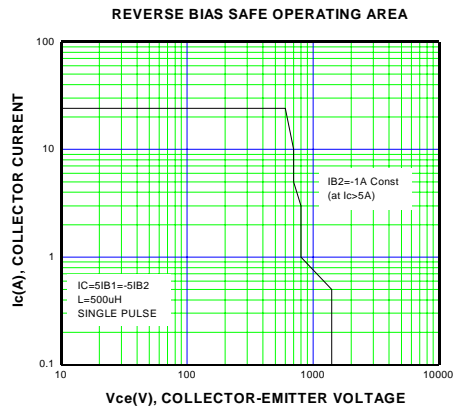
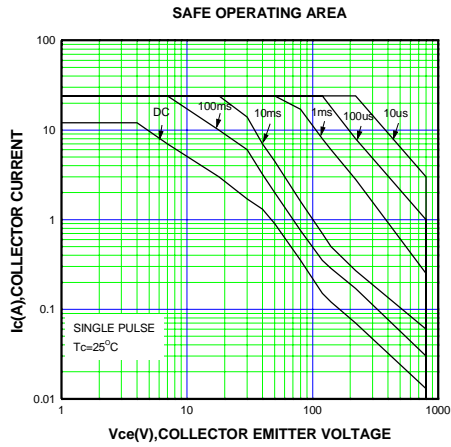
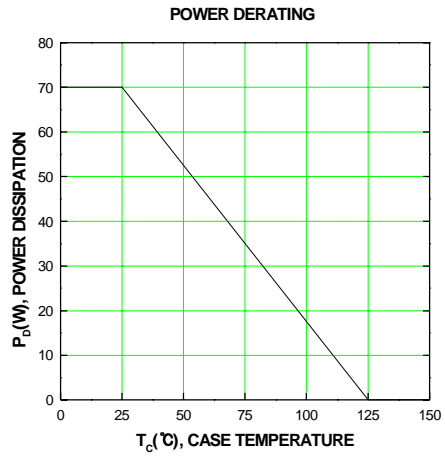
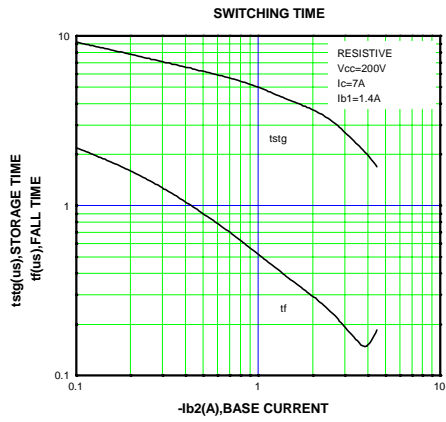
Electrical Characteristics $T_C=25^\circ C$ unless otherwise noted

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	$V_{CE}= 800V, I_E = 0$			10	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_C = 0$			1	mA
h_{FE1} h_{FE2}	DC Current Gain	$V_{CE} = 5V, I_C = 1A$ $V_{CE} = 5V, I_C = 8A$	15 5.5		40 8.5	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 8A, I_B = 2A$			3	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = 8A, I_B = 2A$			1.5	V
t_{STG}	Storage Time	$V_{CC} = 200V, I_C = 7A$			4	μs
t_f	Fall Time	$I_{B1} = 1.4A, I_{B2} = - 2.8A$ $R_L = 28.6\Omega$			0.3	μs

Typical Characteristics



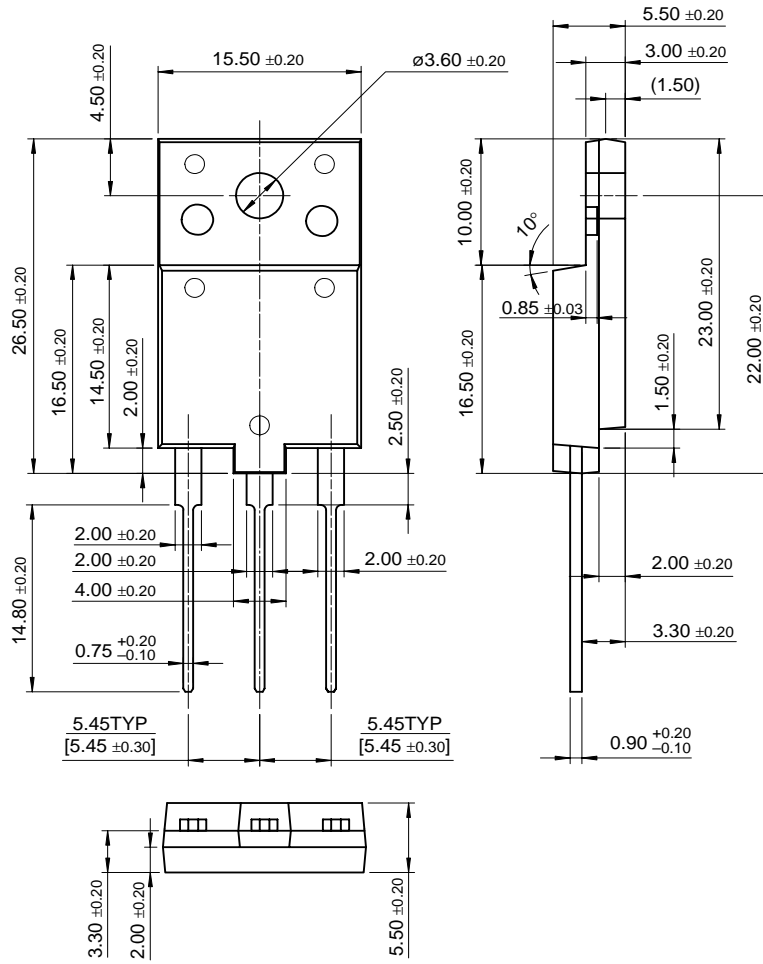
Typical Characteristics (continued)



Package Dimenisons

KSC5803

TO-3PF



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FACT Quiet Series™	QS™	
FAST [®]	Quiet Series™	
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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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