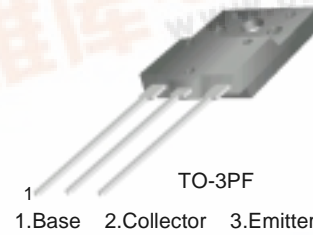


**FAIRCHILD**  
SEMICONDUCTOR™

## KSC5802

### 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(69KHz)



### NPN Triple Diffused Planar Silicon Transistor

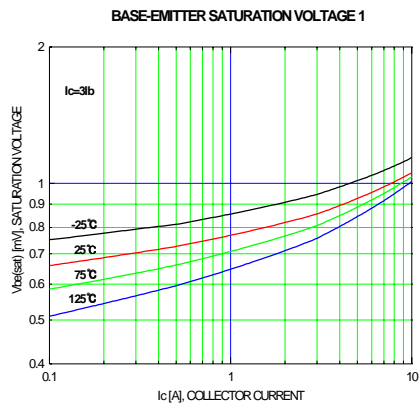
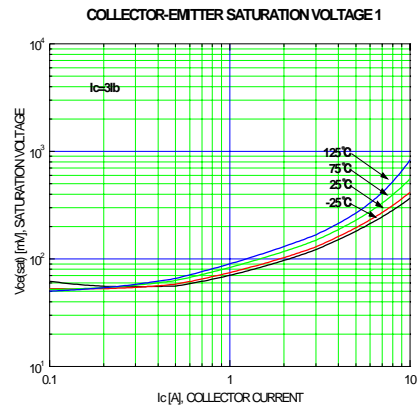
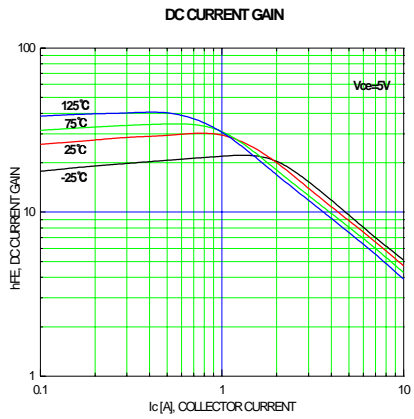
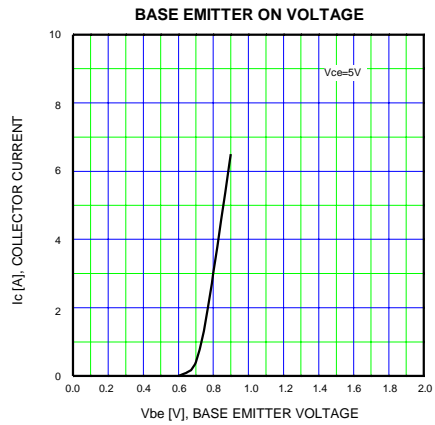
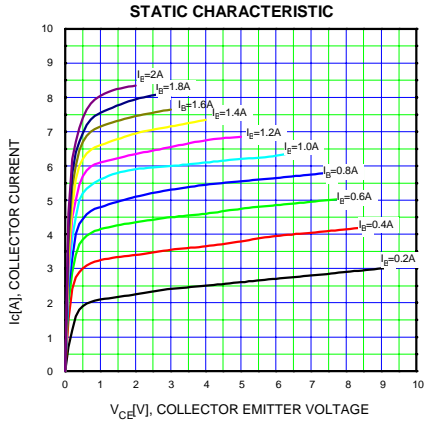
#### Absolute Maximum Ratings $T_C=25^\circ C$ unless otherwise noted

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	$^\circ C$

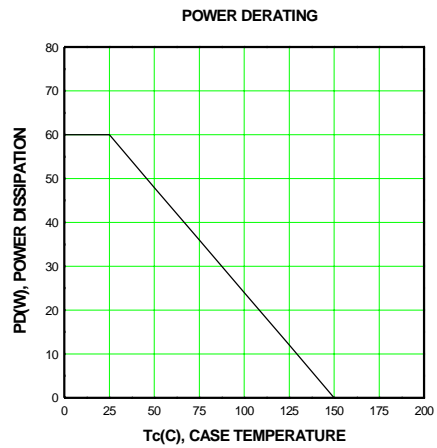
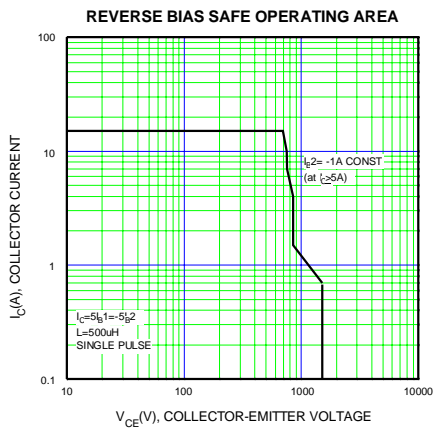
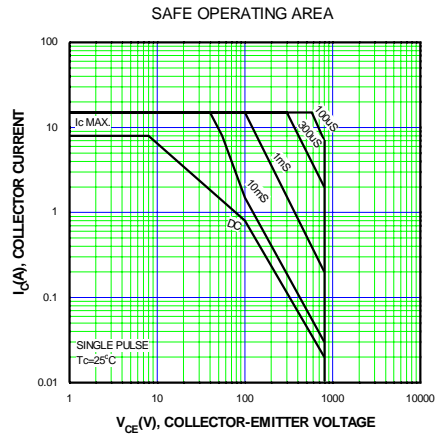
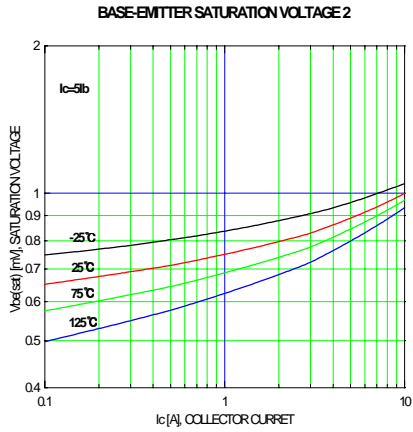
#### Electrical Characteristics $T_C=25^\circ C$ unless otherwise noted

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	$\mu A$
$I_{EBO}$	Emitter Cut-off Current	$V_{EB} = 4V, I_C = 0$			1	mA
$h_{FE1}$	DC Current Gain	$V_{CE} = 5V, I_C = 1A$	15		48	
$h_{FE2}$		$V_{CE} = 5V, I_C = 6A$	7		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	$V_{CC} = 200V, I_C = 6A$ $I_{B1} = 1.2A, I_{B2} = - 2.4A$ $R_L = 33.3\Omega$		0.1	0.3	$\mu s$

# Typical Characteristics



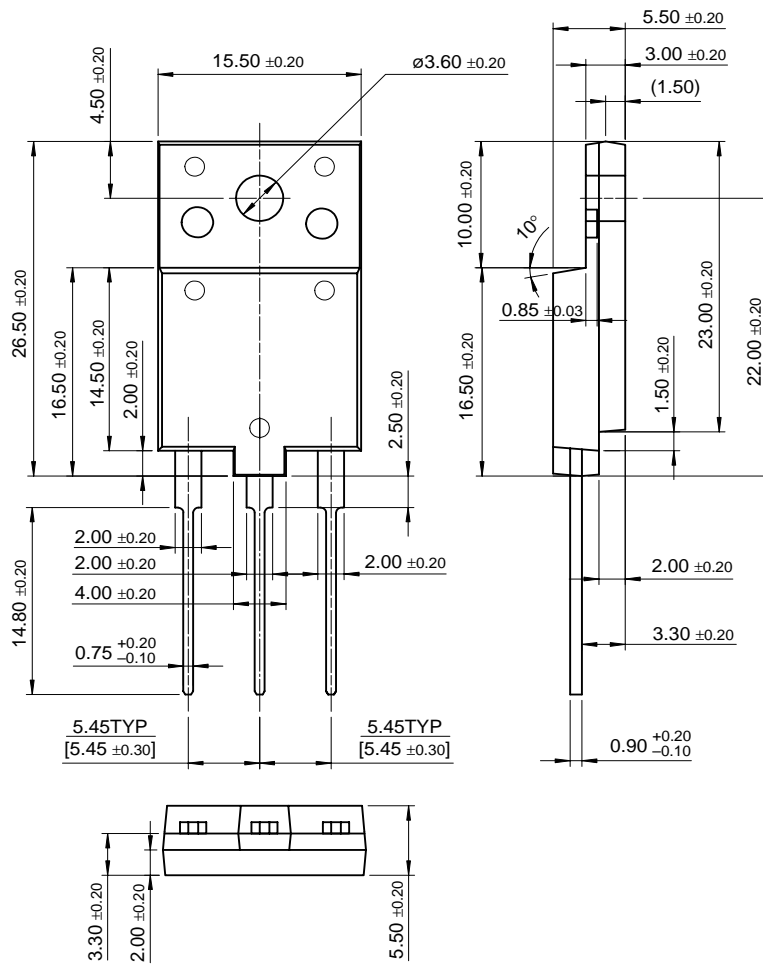
# Typical Characteristics (continued)



# Package Dimension

## TO-3PF

KSC5802



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FACT™	QFET™	
FACT Quiet Series™	QS™	
FAST <sup>®</sup>	Quiet Series™	
FAST <sub>r</sub> ™	SuperSOT™-3	
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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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