

# KSC5802

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

- High Breakdown Voltage: BV<sub>CBO</sub>=1500V
   High Speed Switching: t<sub>F</sub>=0.1µs (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

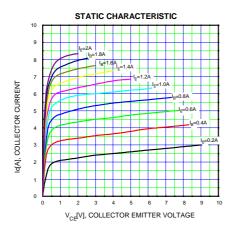
Symbol	Parameter	Value	Units	
V <sub>CBO</sub>	Collector-Base Voltage	1500	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	800	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
I <sub>C</sub>	Collector Current (DC)	10	Α	
I <sub>CP</sub>	Collector Current (Pulse)	30	Α	
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	60	W	
TJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C	

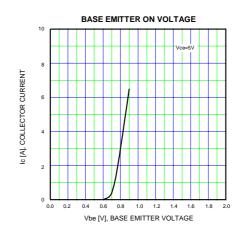
### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I <sub>CES</sub>	Collector Cut-off Current	V <sub>CE</sub> = 1400V, V <sub>BE</sub> =0			1	mA
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = 800V, I_{E} = 0$			10	uA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$			1	mA
h <sub>FE1</sub> h <sub>FE2</sub>	DC Current Gain	$V_{CE} = 5V, I_{C} = 1A$ $V_{CE} = 5V, I_{C} = 6A$	15 7		48 10	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 6A, I <sub>B</sub> = 1.5A			3	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = 6A, I <sub>B</sub> = 1.5A			1.5	V
t <sub>F</sub>	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

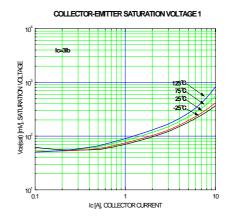
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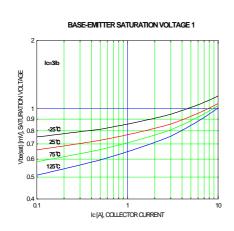
# **Typical Characteristics**

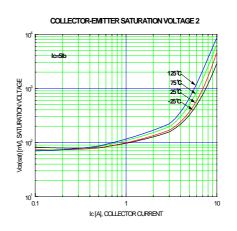




# DC CURRENT GAIN 100 1250 250 250 250 1c [A], COLLECTOR CURRENT

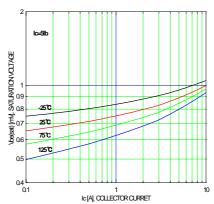


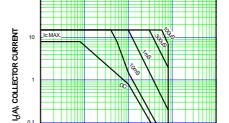




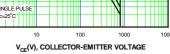
# **Typical Characteristics** (continued)





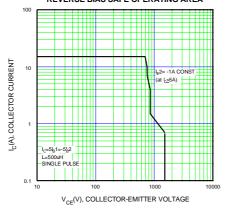


SAFE OPERATING AREA

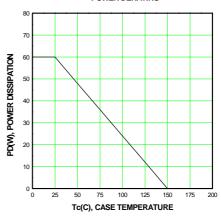


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#### REVERSE BIAS SAFE OPERATING AREA

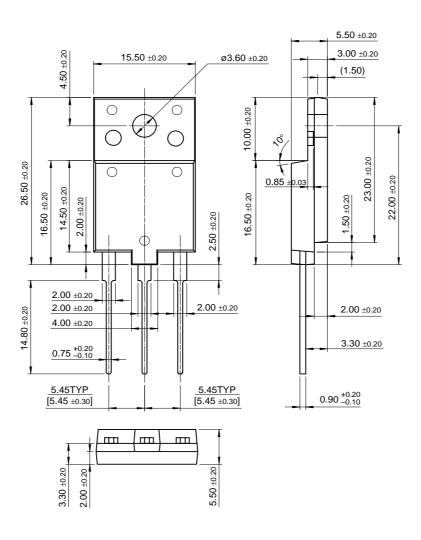


#### POWER DERATING



# **Package Dimension**

# TO-3PF



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