

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)



NPN Triple Diffused Planar Silicon Transistor

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

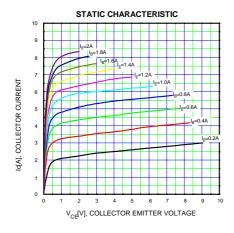
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	6	V	
I _C	Collector Current (DC)	10	Α	
I _{CP}	Collector Current (Pulse)	30	Α	
P _C	Collector Dissipation (T _C =25°C)	60	W	
T _J	Junction Temperature	150	°C	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

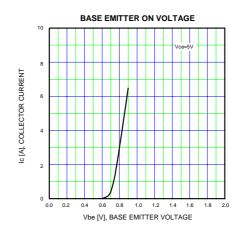
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	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	$V_{CC} = 200V, I_C = 6A$ $I_{B1} = 1.2A, I_{B2} = -2.4A$ $R_L = 33.3\Omega$		0.1	0.3	μs

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Typical Characteristics



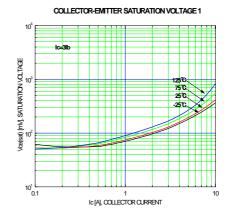


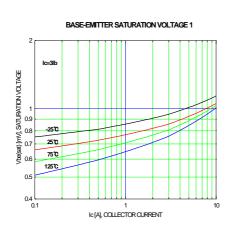
100 Va=5V Va

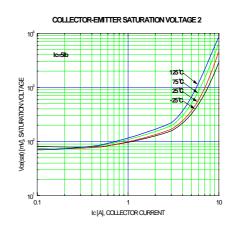
1 Ic [A], COLLECTOR CURRENT

0.1

DC CURRENT GAIN



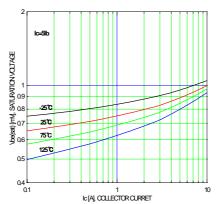


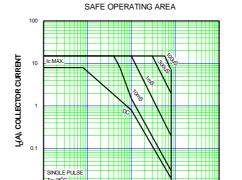


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Typical Characteristics (continued)

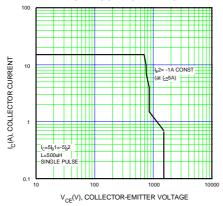






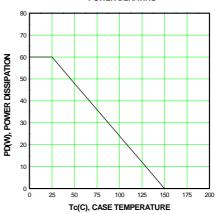
0.01

REVERSE BIAS SAFE OPERATING AREA



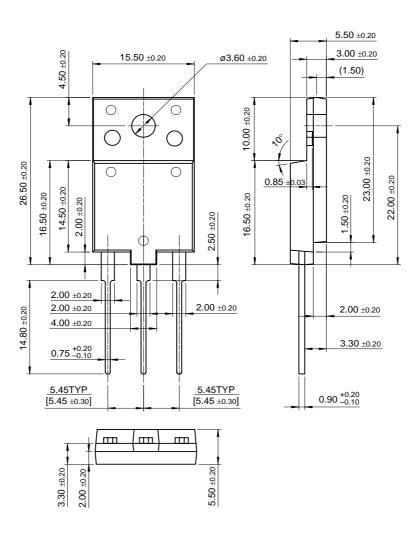
POWER DERATING

V_{CE}(V), COLLECTOR-EMITTER VOLTAGE



Package Dimension

TO-3PF



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