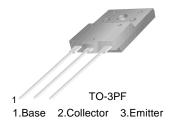


KSC5803

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(85KHz)



NPN Triple Diffused Planar Silicon Transistor

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

Symbol	Parameter	Value	
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	Α
I _{CP}	Collector Current (Pulse)	24	Α
P _C	Collector Dissipation (T _C =25°C)	70	W
TJ	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.	Тур.	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	μΑ
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		40	
h_{FE2}		$V_{CE} = 5V, I_{C} = 8A$	5.5		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

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Typical Characteristics

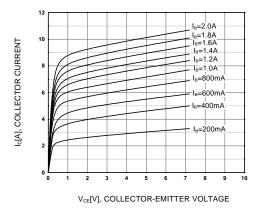


Figure 1. Static Characteristic

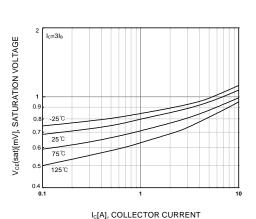


Figure 3. Base-Emitter Saturation Voltage

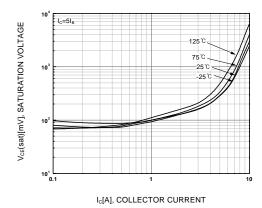


Figure 5. Collector-Emitter Saturation Voltage 2

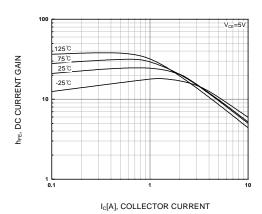


Figure 2. DC current Gain

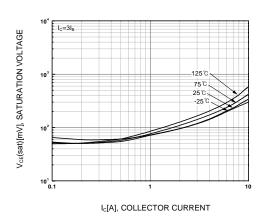


Figure 4. Collector-Emitter Saturation Voltage 1

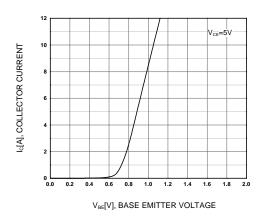
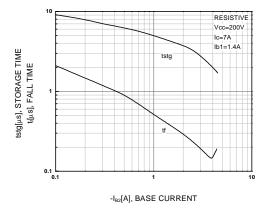


Figure 6. Base-Emitter On Voltage

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Typical Characteristics (Continued)



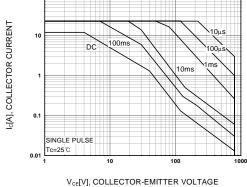


Figure 8. Safe Operating Area

Figure 7. Switching Time

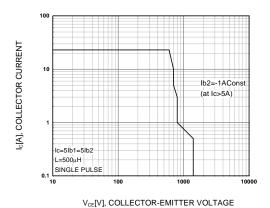


Figure 9. Reverse Bias Safe Operating Area

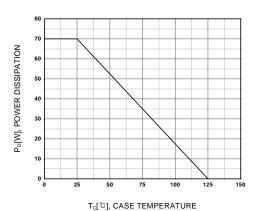
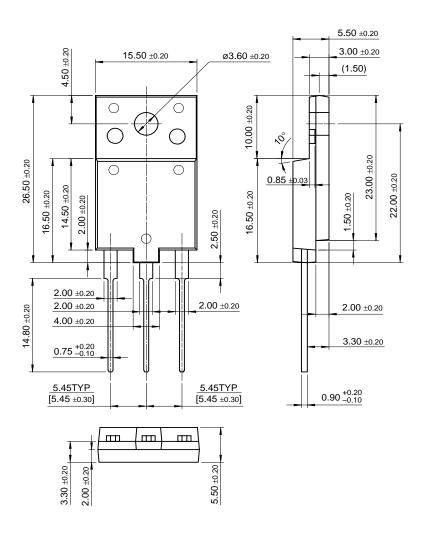


Figure 10. Power Derating

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Package Demensions

TO-3PF



Dimensions in Millimeters

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