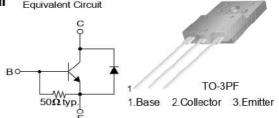


KSC5803D

High Voltage Color Display Horizontal Equivalent Circuit Deflection Output

(Built In 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°C unless otherwise noted

Symbol	Parameter	Value	Units V	
V _{CBO}	Collector-Base Voltage	1500		
V _{CEO}	Collector-Emitter Voltage	800		
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current (DC)	12	A	
I _{CP}	Collector Current (Pulse)	24		
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	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$	50		250	mA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = 5V, I_{C} = 1A$ $V_{CE} = 5V, I_{C} = 8A$	15 7		40 10	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8A, I _B = 2A			3	٧
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 8A, I _B = 2A			1.5	٧
t _{STG}	Storage Time	V _{CC} = 200V, I _C = 7A			4	Įs
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

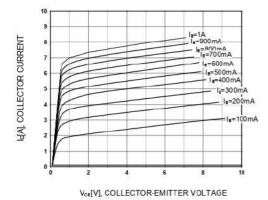


Figure 1. Static Characteristic

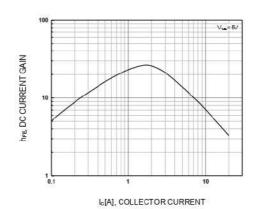


Figure 2. DC current Gain

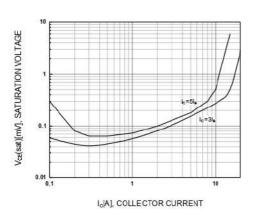


Figure 3. Collector-Emitter Saturation Voltage

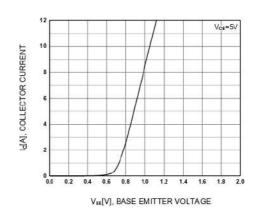


Figure 4. Base-Emitter On Voltage

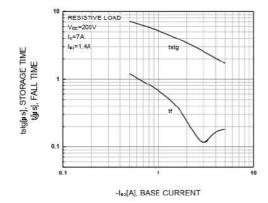


Figure 5. Switching Time

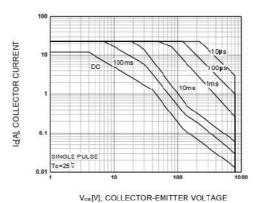


Figure 6. Safe Operating Area

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Typical Characteristics (Continued)

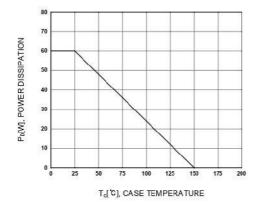
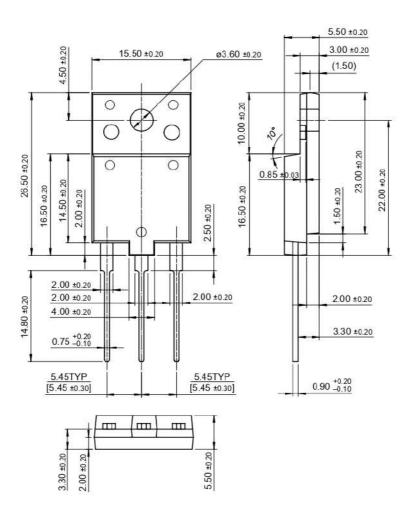


Figure 7. Power Derating

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Package Demensions

TO-3PF



Dimensions in Millimeters

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