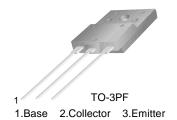


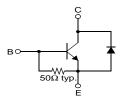
KSC5803D

High Voltage Color Display Horizontal Deflection Output (Damper Diode Built In)

- 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 _{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
T _J	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	$V_{CB} = 800V, I_{E} = 0$			10	μΑ
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	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
V_{F}	Damper Diode Turn On Voltage	I _F = 8A			2	V

Thermal Characteristics $\mathsf{T}_C = \!\! 25^{\circ} C$ unless otherwise noted

Symbol	Item	Max	Unit
$R_{\theta jC}$	Thermal Resistance, Junction to Case	1.79	°C/W

Typical Characteristics

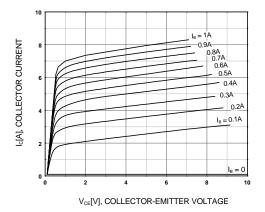


Figure 1. Static Characteristic

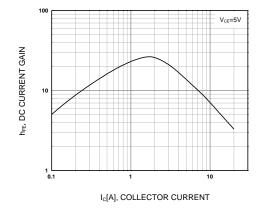


Figure 2. DC current Gain

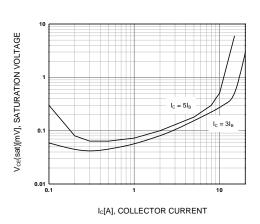


Figure 3. Collector-Emitter Saturation Voltage

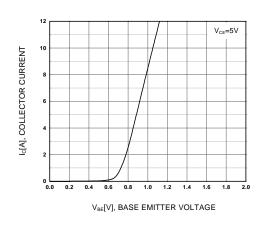


Figure 4. Base-Emitter On Voltage

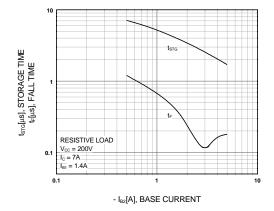


Figure 5. Switching Time

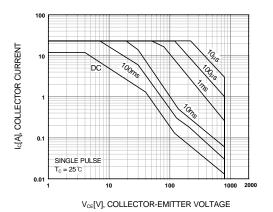


Figure 6. Safe Operating Area

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Typical Characteristics (Continued)

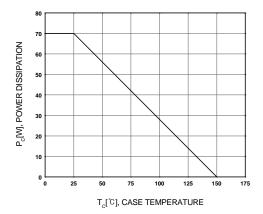
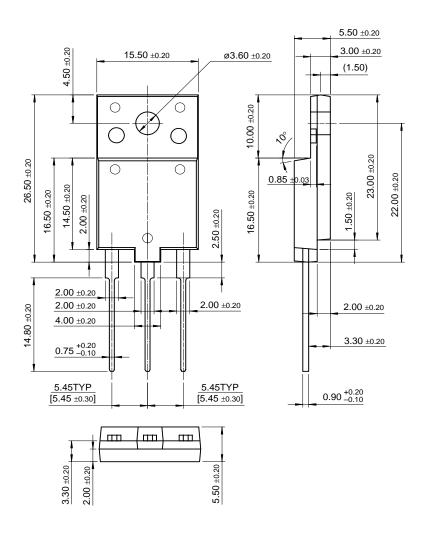


Figure 7. Power Derating

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Package Demensions

TO-3PF



Dimensions in Millimeters

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