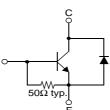


KSC5386

High Voltage Color Display Horizontal Equivalent Circuit Deflection Output

(Damper Diode Built In)

- High Collector-Base Breakdown Voltage : BV_{CBO}=1500V BO-
- High Speed Switching : t_F=0.1μs (Typ)
- Wide S.O.A
- For C-Monitor (48KHz)





NPN Triple Diffused Planar Silicon Transistor

Absolute Maximum Ratings $\tau_{C}\text{=}25^{\circ}\text{C}$ 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)	7	Α
I _{CP}	Collector Current (Pulse)	16	Α
P _C	Collector Dissipation (T _C =25°C)	50	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	−55 ~ 150	°C

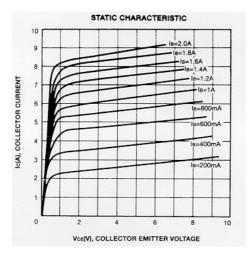
Electrical Characteristics T_{C} =25°C unless otherwise noted

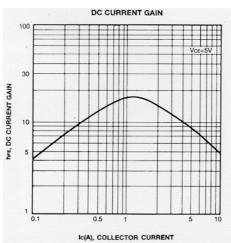
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CES}	Collector Cut-off Current	$V_{CE} = 1400V, R_{BE} = 0$			1	mA
I _{CBO}	Collector Cut-off Current	$V_{CB} = 800V, I_{E} = 0$			10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$	40		250	mA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_{C} = 1.0A$	8		22	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 5A, I_B = 1.2A$			4.2	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_C = 5A, I_B = 1.2A$			1.5	V
V _F	Damper Diode Turn On Voltage	I _F = 6A			2	V
t _F	Fall Time	$V_{CC} = 200V$, $I_C = 4A$, $I_{B1} = 0.8A$, $I_{B2} = -1.6A$, $R_1 = 50\Omega$			0.2	μs

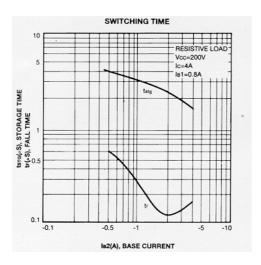
Thermal Characteristics $T_C=25^{\circ}C$ unless otherwise noted

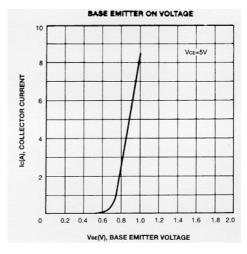
Symbol	Item	Max	Unit
$R_{ heta jc}$	Thermal Resistance, Junction to Case	2.37	°C/W

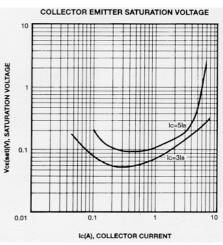
Typical Characteristics

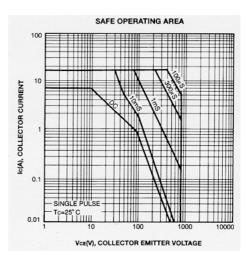




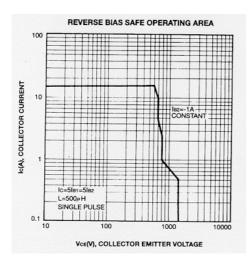


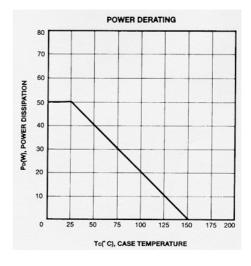






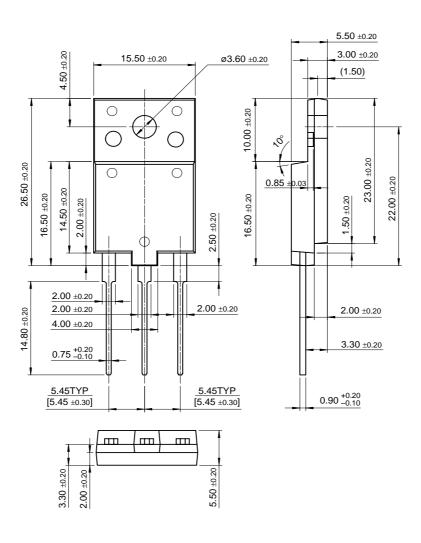
Typical Characteristics (continued)





Package Dimensions

TO-3PF



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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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