



Silicon NPN Triple Diffused Planar Transistors

2SC5148

Application:

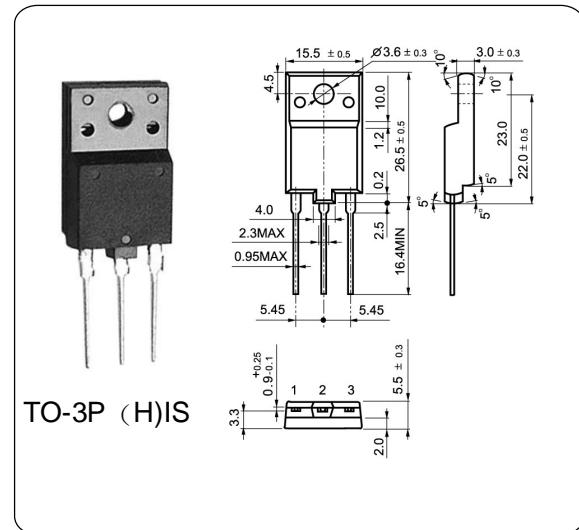
Horizontal deflection output for high resolution display ,color TV.

High speed switching applications



ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	1200	V
Collector-Emitter Voltage	V _{CEO}	700	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Collector Current	I _C	6.0	A
Base Current	I _B	3.0	A
Total Dissipation at	P _{tot}	50	W
Max. Operating Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I _{CBO}	V _{CB} = 1000V, I _E = 0	—	—	5.0	uA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 6.0V, I _C = 0	—	—	5.0	uA
Collector-Emitter Sustaining Voltage	V _{CEO}	I _C = 2.0mA, I _B = 0	700	—	—	V
DC Current Gain	h _{FE(1)}	V _{CE} = 5.0V, I _C = 1.0A	10	—	30	
	h _{FE(2)}	V _{CE} = 5.0V, I _C = 5.0A	5	—	—	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 5.0A, I _B = 1.2A	—	—	2.0	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = 5.0A, I _B = 1.2A	—	—	1.5	V
Current Gain Bandwidth Product	f _T	V _{CE} = 10V, I _C = 0.1A	—	2.0	—	MHz