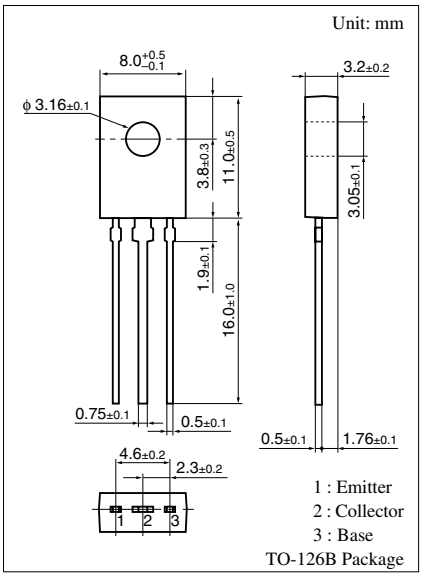
2SC4212

Silicon NPN triple diffusion planar type

For color TV horizontal deflection driver



■ Features

- High collector to emitter voltage V_{CEO}
- TO-126B package which requires no insulation plate for installation to the heat sink

■ Absolute Maximum Ratings $T_C = 25°C$

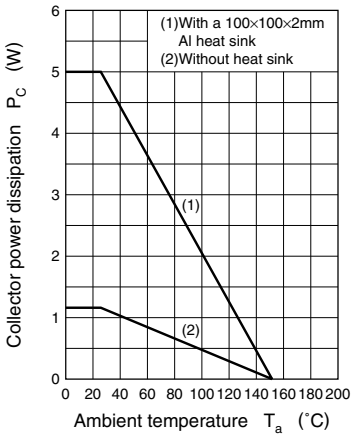
Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	350	V
Collector to emitter voltage	V_{CEO}	300	V
Emitter to base voltage	V_{EBO}	7.5	V
Peak collector current	I_{CP}	400	mA
Collector current	I_C	200	mA
Collector power dissipation	P_C	1.2 *1	W
		5 *2	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

Note) *1: Without heat sink
*2: With a 100 × 100 × 2 mm A1 heat sink

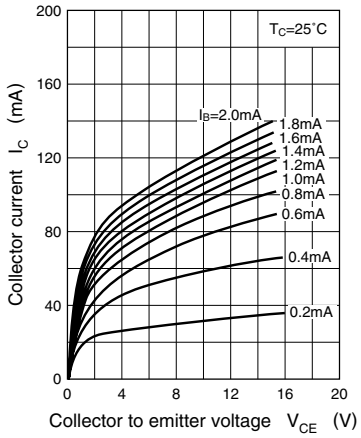
■ Electrical Characteristics $T_C = 25°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	V_{CB} = 200 V, I_E = 0			2	μA
Emitter cutoff current	I_{EBO}	V_{EB} = 5 V, I_C = 0			2	μA
Collector to base voltage	V_{CBO}	I_C = 100 μA, I_E = 0	350			V
Collector to emitter voltage	V_{CEO}	I_C = 5 mA, I_B = 0	300			V
Emitter to base voltage	V_{EBO}	I_E = 100 μA, I_C = 0	7.5			V
Forward current transfer ratio	h_{FE}	V_{CE} = 10 V, I_C = 10 mA	40		250	
Collector to emitter saturation voltage	$V_{CE(sat)}$	I_C = 50 mA, I_B = 5 mA			1	V
Transition frequency	f_T	V_{CB} = 30 V, I_E = −10 mA, f = 200 MHz	50			MHz
Collector output capacitance	C_{ob}	V_{CB} = 50 V, I_E = 0, f = 1 MHz			4.5	pF

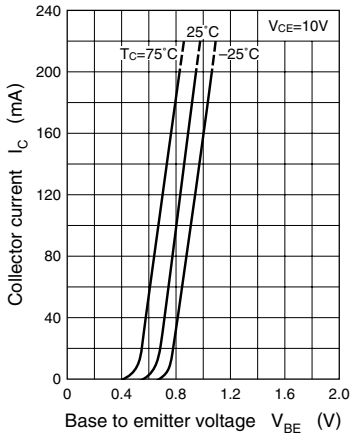
P_C — T_a



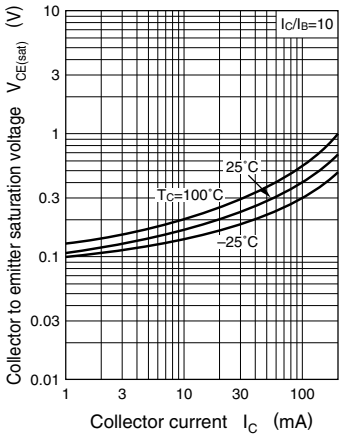
I_C — V_{CE}



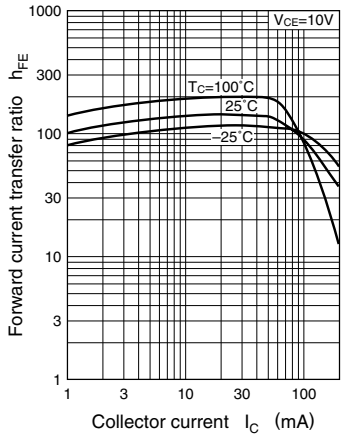
I_C — V_{BE}



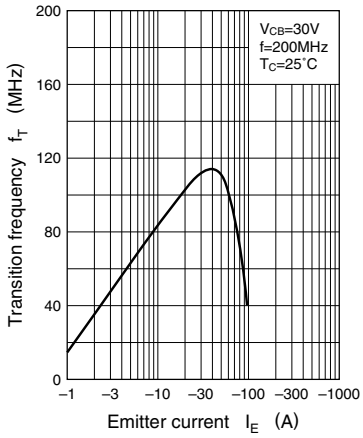
$V_{CE(sat)}$ — I_C



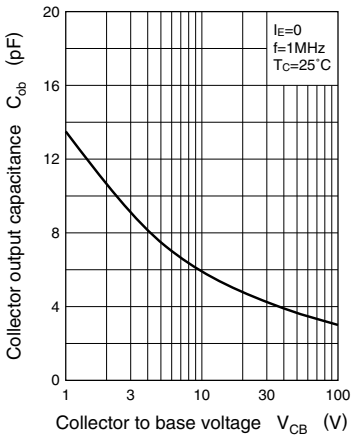
h_{FE} — I_C



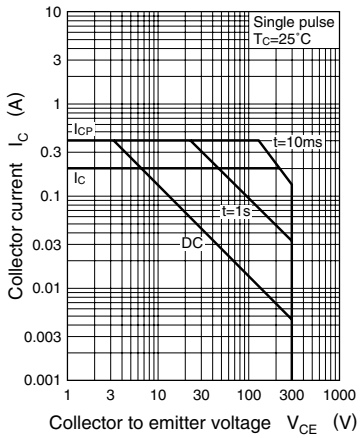
f_T — I_E



C_{ob} — V_{CB}



Area of safe operation (ASO)



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