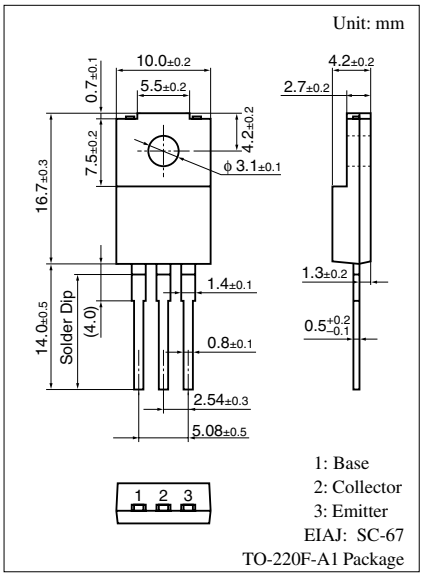
2SD1264, 2SD1264A

Silicon NPN triple diffusion planar type

For low-freauency power amplification
For TV vertical deflection output
Complementary to 2SB0940 and 2SB0940A



■ Features

- High collector to emitter voltage V_{CEO}
- Large collector power dissipation P_C
- Full-pack package which can be installed to the heat sink with one screw

■ Absolute Maximum Ratings $T_C = 25°C$

Parameter		Symbol	Rating	Unit
Collector to base voltage		V_{CBO}	200	V
Collector to emitter voltage	2SD1264	V_{CEO}	150	V
	2SD1264A		180	
Emitter to base voltage		V_{EBO}	6	V
Peak collector current		I_{CP}	3	A
Collector current		I_C	2	A
Collector power dissipation	$T_C = 25°C$	P_C	30	W
	$T_a = 25°C$		2	
Junction temperature		T_j	150	°C
Storage temperature		T_{stg}	−55 to +150	°C

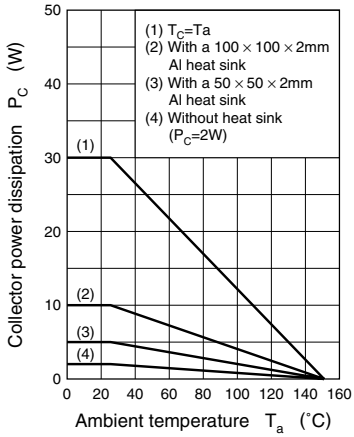
■ Electrical Characteristics $T_C = 25°C$

Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Collector cutoff current		I_{CBO}	V_{CB} = 200 V, I_E = 0			50	μA
Emitter cutoff current		I_{EBO}	V_{EB} = 4 V, I_C = 0			50	μA
Collector to base voltage		V_{CBO}	I_C = 50 μA, I_E = 0	200			V
Collector to emitter voltage	2SD1264	V_{CEO}	I_C = 5 mA, I_B = 0	150			V
	2SD1264A			180			
Emitter to base voltage		V_{EBO}	I_E = 500 μA, I_C = 0	6			V
Forward current transfer ratio		h_{FE1} *	V_{CE} = 10 V, I_C = 150 mA	60		240	
		h_{FE2}	V_{CE} = 10 V, I_C = 400 mA	50			
Base to emitter voltage		V_{BE}	V_{CE} = 10 V, I_C = 400 mA			1	V
Collector to emitter saturation voltage		$V_{CE(sat)}$	I_C = 500 mA, I_B = 50 mA			1	V
Transition frequency		f_T	V_{CE} = 5 V, I_C = 0.5 A, f = 1 MHz		20		MHz

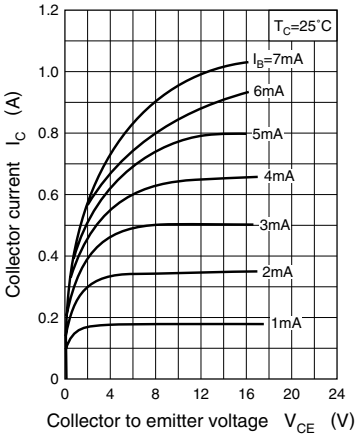
Note) ∗: Rank classification

Rank	Q	P
h_{FE1}	60 to 140	100 to 240

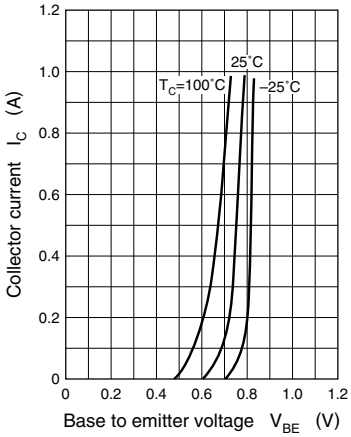
P_C — T_a



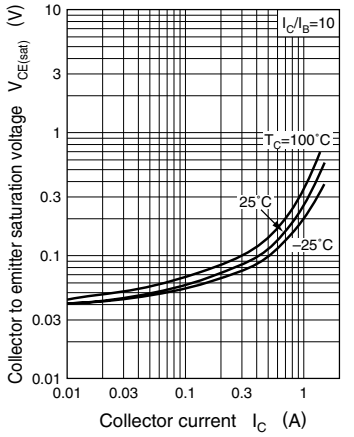
I_C — V_{CE}



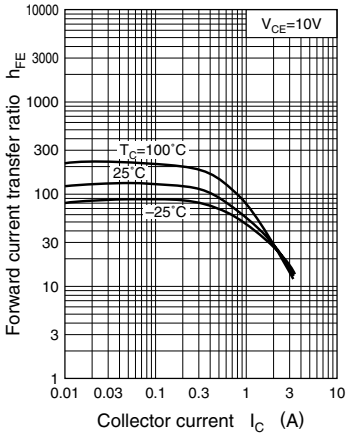
I_C — V_{BE}



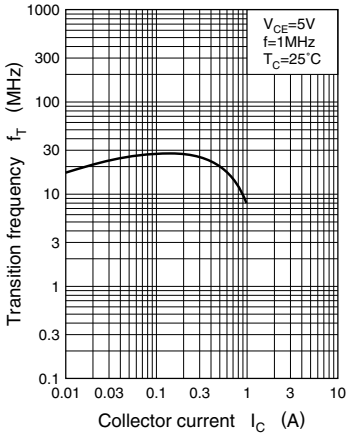
$V_{CE(sat)}$ — I_C



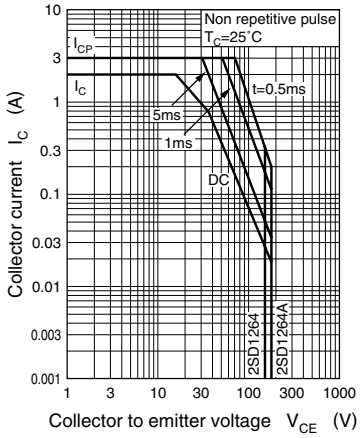
h_{FE} — I_C



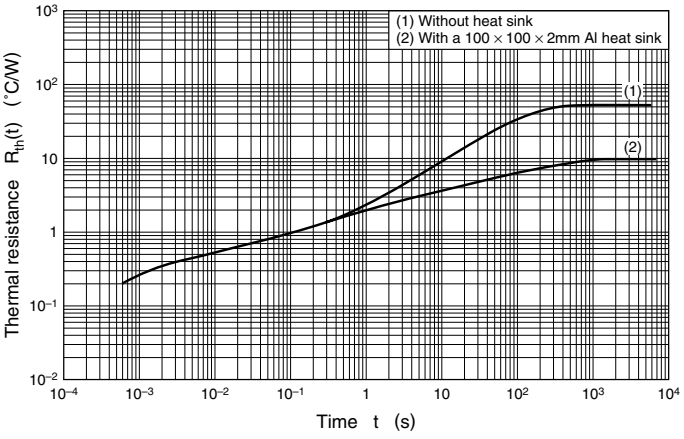
f_T — I_C



Area of safe operation (ASO)



$R_{th(t)}$ — t



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