2SD1771, 2SD1771A

Silicon NPN triple diffusion planar type

For power amplification For TV vertical deflection output Complementary to 2SB1191 and 2SB1191A

Features

- High collector to emitter V_{CEO}
- Large collector power dissipation P_C
- N type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

Absolute Maximum Ratings (T_C=25°C)

Parameter		Symbol	Ratings	Unit			
- Talamo	101	Cyrribor	realings	Offic			
Collector to	2SD1771		200	V			
base voltage	2SD1771A	V_{CBO}	200				
Collector to	2SD1771	37	150	V/	10.0±0.3		
emitter voltage	2SD1771A	V _{CEO}	180		10.0		
Emitter to base voltage		V _{EBO}	6	V	2.0		
Peak collector current		I_{CP}	2	A	4.4		
Collector current		$I_{\rm C}$	1	A			
Collector power	T _C =25°C	D	25	W	100		
dissipation	Ta=25°C	P_C	1.3				
Junction temper	rature	$T_{\rm j}$	150	°C	- \SO		
Storage temperature		T_{stg}	-55 to +150	°C	·/b/		
				ille	., O.,		
Electrical Characteristics (T _C =25°C)							
Para	ameter	Syr	nbol	Conditions			
Collector cutoff current I_{CBO} $V_{CB} = 200V$, $I_{E} = 0$							

Unit: mm ___1.1max. 0.5max. 2:Collector 3:Emitter N Type Package Unit: mm 1:Base 2:Collector 3:Emitter N Type Package (DS)

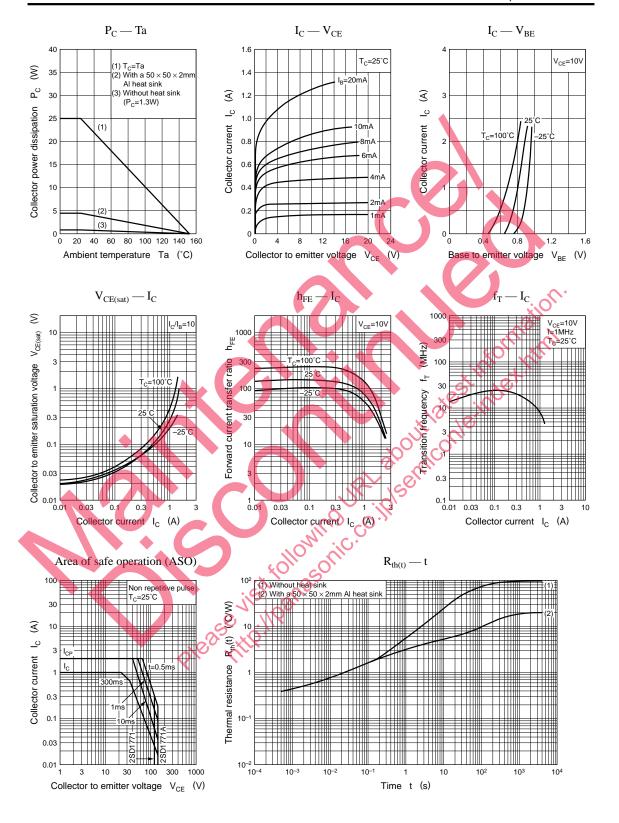
Electrical Characteristics (T_C=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 200 V, I_{E} = 0$			50	μА
Emitter cutoff current	I _{EBO}	$V_{EB} = 4V, I_C = 0$			50	μΑ
Collector to emitter 2SD1771	V 05	$I_C = 5$ mA, $I_B = 0$	150			V
voltage 2SD1771A	VcBo		180			
Emitter to base voltage	V_{EBO}	$I_E = 0.5 \text{mA}, I_C = 0$	6			V
Forward current transfer ratio	h _{FE1} *	$V_{CE} = 10V, I_{C} = 100mA$	60		240	
Forward current transfer ratio	h _{FE2}	$V_{CE} = 10V, I_{C} = 300mA$	50			
Base to emitter voltage	V _{BE}	$V_{CE} = 10V, I_{C} = 300mA$			1	V
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 500 \text{mA}, I_B = 50 \text{mA}$			1	V
Transition frequency	f_T	$V_{CE} = 10V, I_{C} = 100mA, f = 1MHz$		20		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_{E} = 0, f = 1MHz$		27		pF

*h_{FE1} Rank classification

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

Panasonic



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