2SD1754, 2SD1754A

Silicon NPN triple diffusion planar type

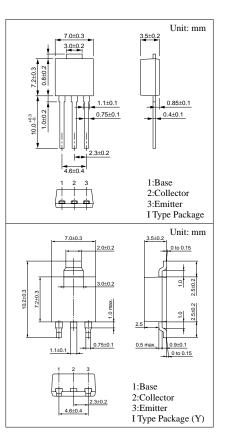
For power amplification with high forward current transfer ratio

Features

- High foward current transfer ratio h_{FE}
- Satisfactory linearity of foward current transfer ratio h_{FE}
- I type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

Absolute Maximum Ratings $(1_c=25 \text{ C})$							
Parameter		Symbol	Ratings	Unit			
Collector to	2SD1754	N7	80	V			
base voltage	2SD1754A	V _{CBO}	100				
Collector to	2SD1754	N7	60	V			
emitter voltage	2SD1754A	V _{CEO}	80				
Emitter to base voltage		V _{EBO}	6	V			
Peak collector current		I _{CP}	6	А			
Collector current		I _C	3	А			
Base current		IB	1	А			
Collector power	T _C =25°C	D	15	W			
dissipation	Ta=25°C	P _C	1.3				
Junction temperature		Tj	150	°C			
Storage temperature		T _{stg}	-55 to +150	°C			

Absolute Maximum Ratings $(T_c=25^{\circ}C)$

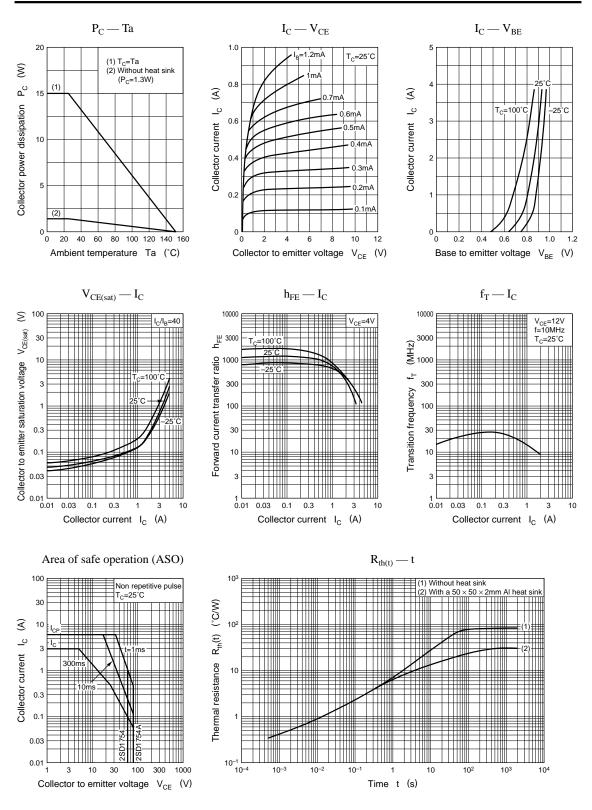


Electrical Characteristics $(T_c=25^{\circ}C)$

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SD1754	I _{CBO}	$V_{CB} = 80V, I_E = 0$			100	μA
current	2SD1754A		$V_{CB} = 100V, I_E = 0$			100	
Collector cutoff current		I _{CEO}	$V_{CE} = 40V, I_B = 0$			100	μΑ
Emitter cutoff current		I _{EBO}	$V_{EB} = 6V, I_C = 0$			100	μΑ
Collector to emitter	2SD1754	V _{CEO}	$I_{\rm C} = 25 {\rm mA}, I_{\rm B} = 0$	60			v
voltage	2SD1754A			80			
Forward current transfer ratio		h _{FE} *	$V_{CE} = 4V, I_C = 0.5A$	500		1500	
Collector to emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = 2A, I_{\rm B} = 0.05A$			1	V
Transition frequency		f _T	$V_{CE} = 12V, I_C = 0.2A, f = 10MHz$		30		MHz

*hFE Rank classification

Rank	Q	Р		
h _{FE}	500 to 1000	800 to 1500		



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