2SB1361

Silicon PNP triple diffusion planar type

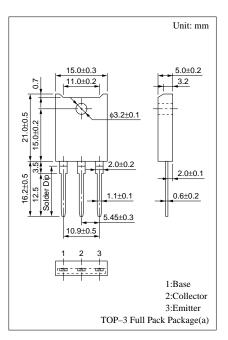
For high power amplification Complementary to 2SD2052

Features

- Satisfactory foward current transfer ratio h_{FE} vs. collector current I_C characteristics
- Wide area of safe operation (ASO)
- High transition frequency f_T
- Full-pack package which can be installed to the heat sink with one screw

Parameter		Symbol	Ratings	Unit		
Collector to base voltage		V _{CBO}	-150	V		
Collector to emitter voltage		V _{CEO}	-150	V		
Emitter to base voltage		V _{EBO}	-5	V		
Peak collector current		I _{CP}	-15	А		
Collector current		I _C	-9	А		
Collector power	T _C =25°C	D	100	117		
dissipation	Ta=25°C	P _C	3	W		
Junction temperature		Tj	150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

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

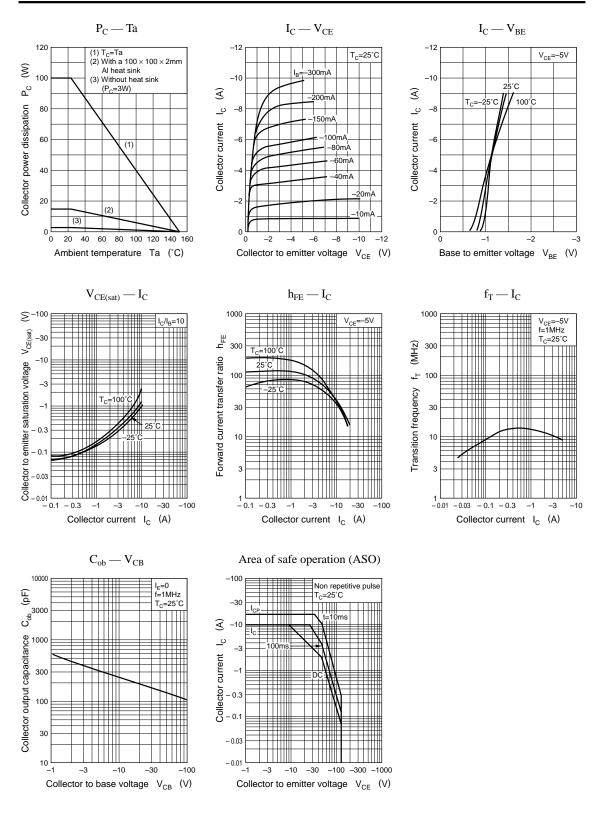


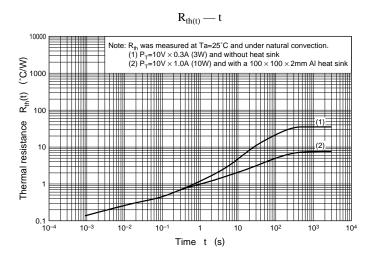
Electrical Characteristics (T_C=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = -150V$, $I_E = 0$			-50	μA
Emitter cutoff current	I _{EBO}	$V_{EB} = -3V, I_C = 0$			-50	μA
Forward current transfer ratio	h _{FE1}	$V_{CE} = -5V, I_C = -20mA$	20			
	h _{FE2} *	$V_{CE} = -5V, I_C = -1A$	60		200	
	h _{FE3}	$V_{CE} = -5V, I_C = -7A$	20			
Base to emitter voltage	V _{BE}	$V_{CE} = -5V, I_C = -7A$			-1.8	V
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -7A, I_{\rm B} = -0.7A$			-2.0	V
Transition frequency	f _T	$V_{CE} = -5V, I_C = -0.5A, f = 1MHz$		15		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		270		pF

*hFE2 Rank classification

Rank	Q	S	Р
h _{FE2}	60 to 120	80 to 160	100 to 200





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