2SB1361

Silicon PNP triple diffusion planar type

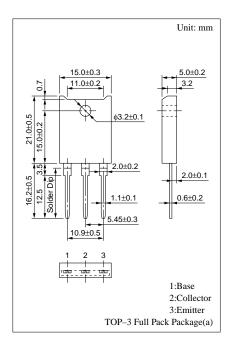
For high power amplification Complementary to 2SD2052

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

Absolute Maximum Ratings (T_C=25°C)

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	A	
Collector current		I_C	-9	A	
Collector power To	=25°C	D	100	***	
dissipation Ta	a=25°C	P_{C}	3	W	
Junction temperature		T _j	150	°C	
Storage temperature		$T_{\rm stg}$	-55 to +150	°C	



Electrical Characteristics (T_C=25°C)

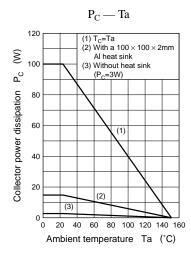
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -150V, I_E = 0$			-50	μΑ
Emitter cutoff current	I_{EBO}	$V_{EB} = -3V, I_C = 0$			-50	μΑ
Forward current transfer ratio	h _{FE1}	$V_{CE} = -5V, I_{C} = -20mA$	20			
	h _{FE2} *	$V_{CE} = -5V, I_{C} = -1A$	60		200	
	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)}	$I_C = -7A$, $I_B = -0.7A$			-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

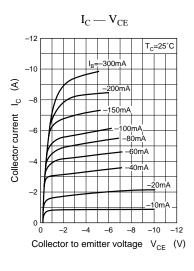
*h_{FE2} Rank classification

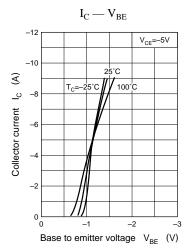
Rank	Q	S	P	
h _{FE2}	60 to 120	80 to 160	100 to 200	

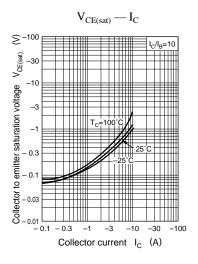
Panasonic 1

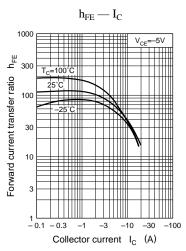
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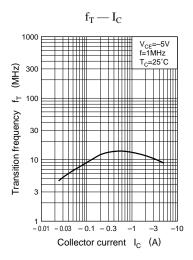


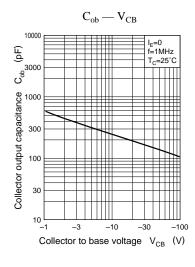


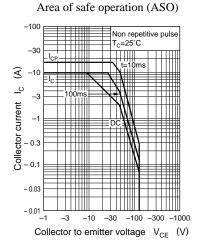






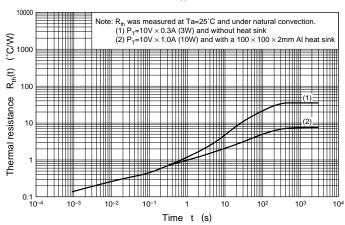






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