2SB1108

Silicon PNP Epitaxial Planar Darlington Type

Medium Speed Switching Complementary Pair with 2SD1608

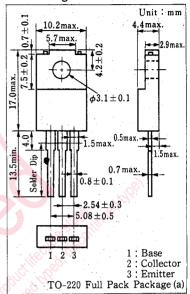
■ Features

- High DC current gain (hFE)
- High speed switching
- "Full Pack" package for simplified mounting on a heat sink with one screw

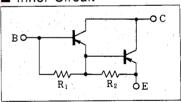
■ Absolute Maximum Ratings (Tc=25°C)

		The state of the s			
Item		Symbol	Value	Unit	
Collector-base voltage		V_{CBO}	-120	V	
Collector-emitter voltage		$V_{\rm CEO}$	-120	V	
Emitter-base voltage		V_{EBO}	-7	V	
Peak collector current		I _{CP}	-15	A	
Collector current		Ic	-10	Α	
Collector power dissipation	Tc=25℃	Pc	50	W	
	Ta=25℃	1.0	2		
Junction temperature		T_i	150	16/ ₁ 2° ₆₀	
Storage temperature		Tstg	$-55 \sim +150$	"// CS.	

■ Package Dimensions

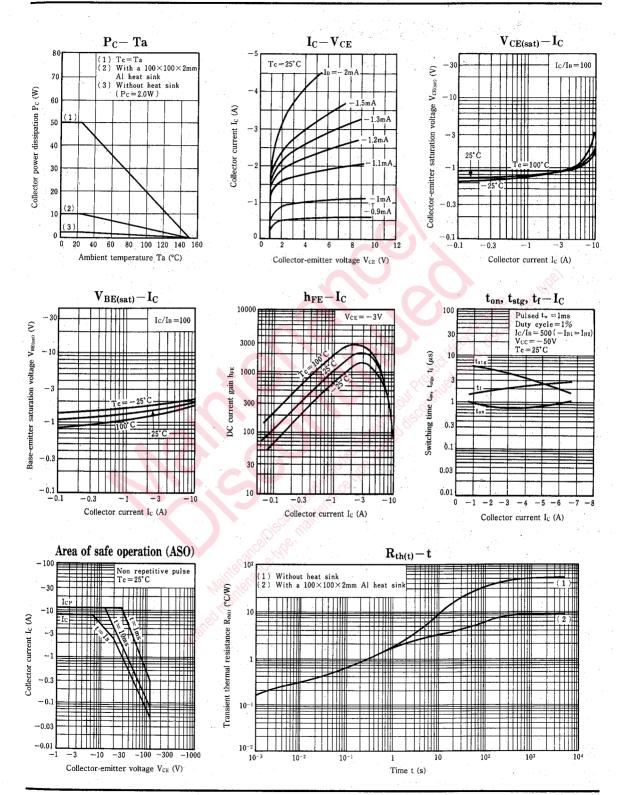


Inner Circuit



■ Electrical Characteristics (Tc=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
	Ісво	$V_{CB} = -120, I_E = 0$			-100	μΑ
Collector cutoff current	I _{CEO}	$V_{CE} = -100 \text{ V}, I_B = 0$	- 1		-10	
Collector-emitter voltage	V _{CEO(sus)}	$I_C = -2 \text{ A}, R_{BE} = \infty, L = 10 \text{ mH}$	-120			V
Emitter-base voltage	V _{EBO}	$I_E = -50 \text{ mA}, I_C = 0$	· -7			V
DC current gain	hFE	$V_{CE} = -3 \text{ V}, I_{C} = -4 \text{ A}$	1000		20000	-
C. II	V _{CE(sat)1}	$I_C = -4 \text{ A}, \ I_B = -8 \text{ mA}$			-1.5	V
Collector-emitter saturation voltage	V _{CE(sat)2}	$I_C = -8 \text{ A}, I_B = -80 \text{ mA}$		i	-3	V
D 111	VBE(sat)1 .	$I_C = -4 \text{ A}, \ I_B = -8 \text{ mA}$			-2	V
Base-emitter saturation voltage	VBE(sat)2	$I_C = -8 \text{ A}, \ I_B = -80 \text{ mA}$			-3.5	V
Transition frequency	f_{T}	$V_{CE} = -10V$, $I_C = -1A$, $f = 10MHz$		30		MHz
Turn-on time ton		7		0.7		μS
Storage time	tstg	$I_C = -4A$, $I_{B1} = -8mA$, $I_{B2} = 8mA$		3.5		μS
Collector current fall time	t _f	$V_{\rm CC} = -50 \text{ V}$		2.5		μS



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