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2SB1079

Silicon PNP Triple Diffused

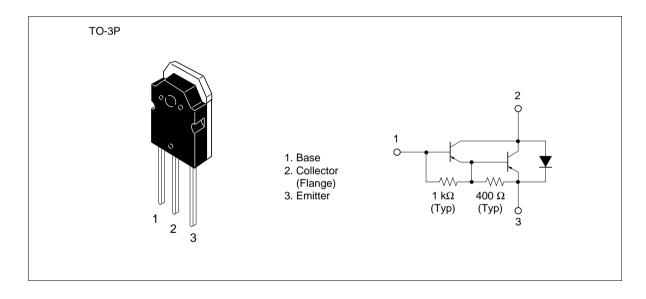


ADE-208-866 (Z) 1st. Edition September 2000

Application

Low frequency power amplifier complementary pair with 2SD1559

Outline



2SB1079

Absolute Maximum Ratings (Ta = 25°C)

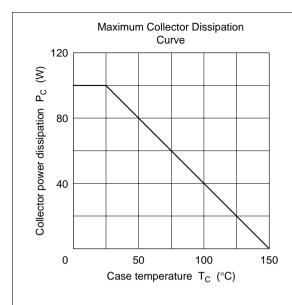
Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	-100	V	
Collector to emitter voltage	V_{CEO}	-100	V	
Emitter to base voltage	V_{EBO}	– 7	V	
Collector current	I _c	-20	Α	
Collector peak current	I _{C(peak)}	-30	Α	
Base current	I _B	-3	Α	
Collector power dissipation	P _c *1	100	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	
Storage temperature	Tstg	-55 to +150	°C	

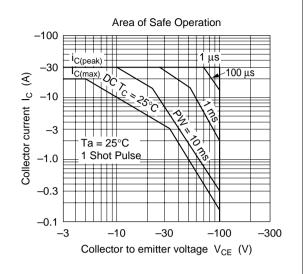
Note: 1. Value at $T_c = 25^{\circ}C$.

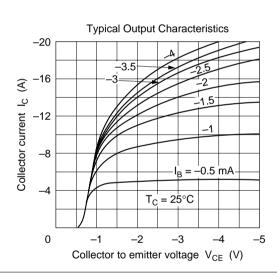
Electrical Characteristics (Ta = 25°C)

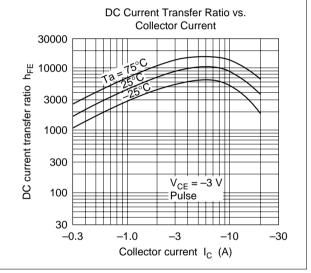
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-100	_	_	V	$I_{\rm C} = -0.1 \text{ mA}, I_{\rm E} = 0$
Collector to emitter breakdown voltage	$V_{(BRCEO}$	-100	_	_	V	$I_{C} = -25 \text{ mA}, R_{BE} = \infty$
Collector to emitter sustain voltage	$V_{\text{CEO(sus)}}$	-100	_	_	V	$I_{\rm C} = -200 \text{ mA}, R_{\rm BE} = \infty^{*1}$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-7	_	_	V	$I_{\rm E} = -50 \text{ mA}, I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	-100	μΑ	$V_{CB} = -100 \text{ V}, I_{E} = 0$
	I _{CEO}	_	_	-1.0	mA	$V_{CE} = -80 \text{ V}, R_{BE} = \infty$
DC current transfer ratio	h_{FE}	1000	_	20000		$V_{CE} = -3 \text{ V}, I_{C} = -10 \text{ A}^{*1}$
Collector to emitter saturation voltage	$V_{\text{CE}(\text{sat})1}$	_	_	-2.0	V	$I_{\rm C} = -10 \text{ A}, I_{\rm B} = -20 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{BE(sat)1}$	_	_	-2.5	V	_
Collector to emitter saturation voltage	V _{CE(sat)2}	_	_	-3.0	V	$I_{\rm C} = -20 \text{ A}, I_{\rm B} = -200 \text{ mA}^{*1}$
Base to emitter saturation voltage	$V_{BE(sat)2}$	_	_	-3.5	V	
Turn on time	t _{on}		0.6		μs	$I_{\rm C} = -10 \text{ A}, I_{\rm B1} = -I_{\rm B2} = -20 \text{ mA}$
Storage time	t _{stg}	_	3.5	_	μs	

Note: 1. Pulse Test.

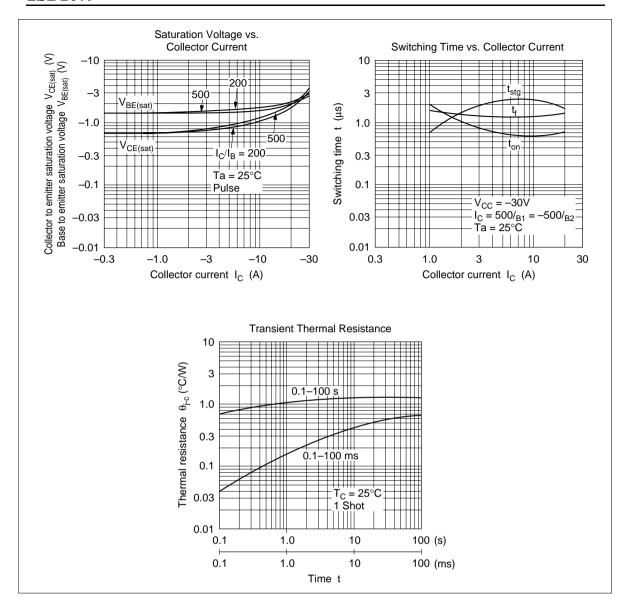








2SB1079



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