

2SA1052

Silicon PNP Epitaxial

REJ03G0634-0300 (Previous ADE-208-1006A) Rev.3.00 Aug.10.2005

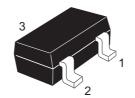
Application

Low frequency amplifier

Outline

RENESAS Package code: PLSP0003ZB-A

(Package name: MPAK)



- 1. Emitter
- 2. Base
- 3. Collector

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	-30	V
Collector to emitter voltage	V _{CEO}	-30	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current	Ic	-100	mA
Emitter current	I _E	100	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

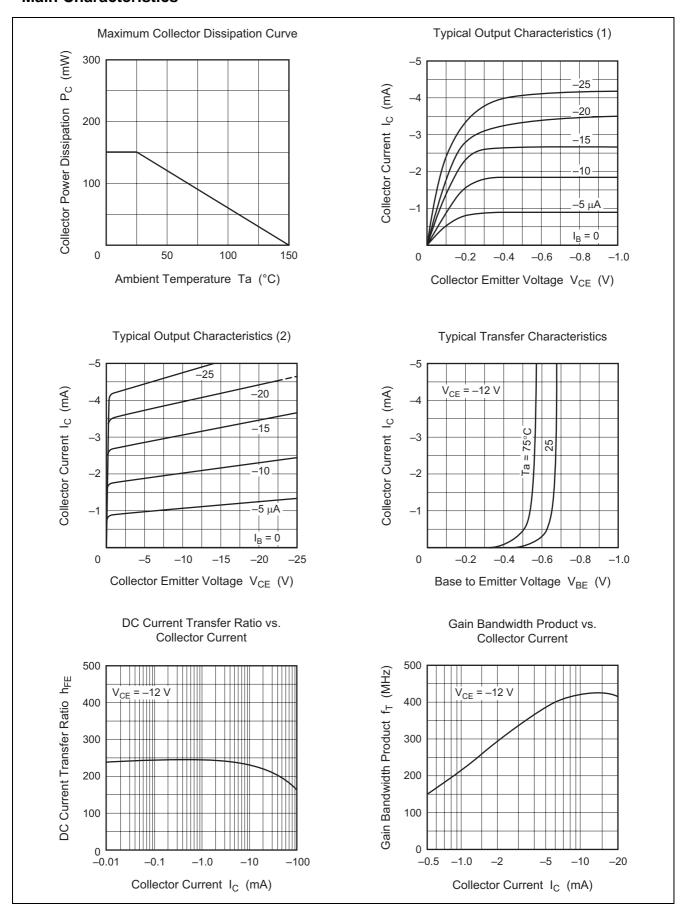
 $(Ta = 25^{\circ}C)$

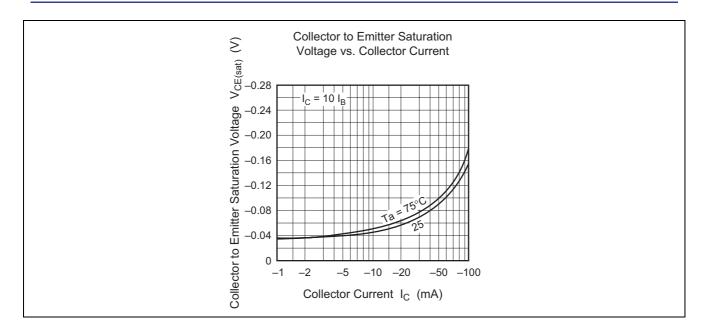
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-30	_		V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-30	_		V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	- 5	_	_	V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	-0.5	μΑ	$V_{CB} = -20 \text{ V}, I_E = 0$
Emitter cutoff current	I _{EBO}	_	_	-0.5	μΑ	$V_{EB} = -2 \text{ V}, I_C = 0$
DC current transfer ratio	h _{FE} *1	160	_	500		$V_{CE} = -12 \text{ V}, I_{C} = -2 \text{ mA}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	_	-0.2	V	$I_C = -10 \text{ mA}, I_B = -1 \text{ mA}$
Base to emitter voltage	V_{BE}	_	_	-0.75	V	$V_{CE} = -12 \text{ V}, I_{C} = -2 \text{ mA}$

Note: 1. The 2SA1052 is grouped by h_{FE} as follows.

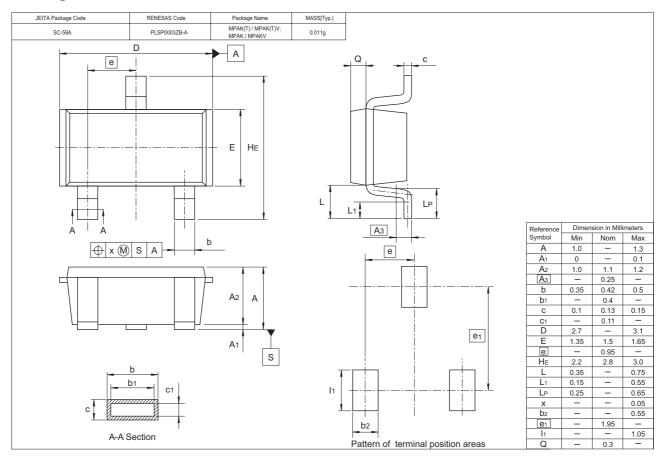
Grade	С	D	
Mark	MC	MD	
h _{FE}	160 to 320	250 to 500	

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container		
2SA1052MCTR-E	3000	φ 178 mm Reel, 8 mm Emboss Taping		
2SA1052MDTR-E				

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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