

Silicon NPN Epitaxial

REJ03G0729-0300 (Previous ADE-208-1120A) Rev.3.00 Aug.10.2005

Application

High voltage amplifier

Features

- High breakdown voltage $V_{CEO} = 300 \text{ V}$
- Small Cob Cob = 1.5 pF Typ.

Outline

	RENESAS Package code: PL (Package name: MPAK)	SP0003ZB-A		
			1. Emitter 2. Base 3. Collector	
Note:	Marking is "XV–".			

Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	300	V
Collector to emitter voltage	V _{CEO}	300	V
Emitter to base voltage	V _{EBO}	5	V
Collector current	Ι _C	50	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C



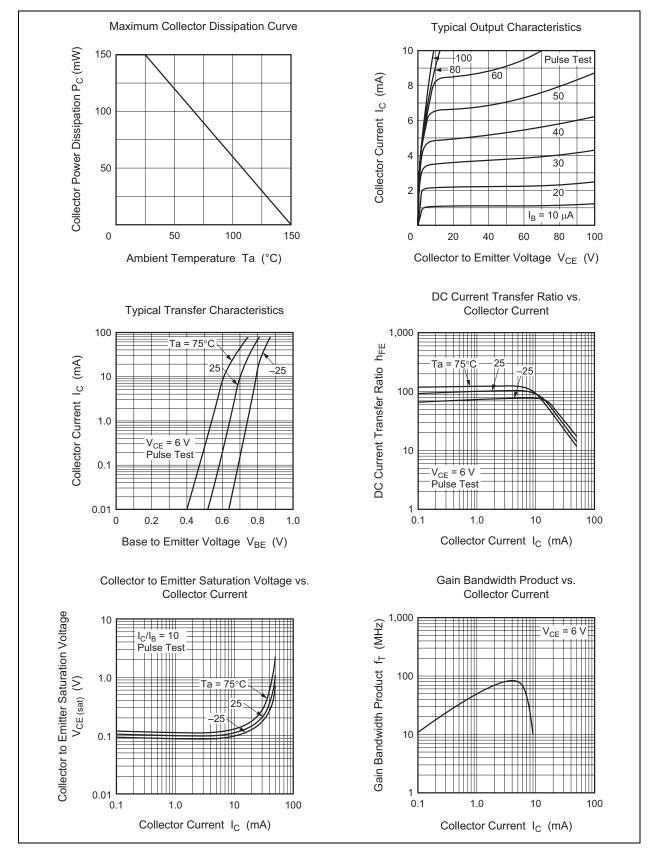
Electrical Characteristics

(Ta =	: 25°C)
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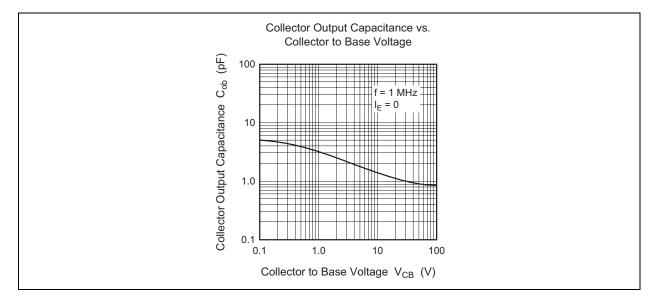
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	300	—		V	$I_{C} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	300	—		V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	V _{(BR)EBO}	5	—	—	V	$I_E = 10 \ \mu A, \ I_C = 0$
Collector cutoff current	I _{CBO}	—	—	0.1	μΑ	$V_{CB} = 250 \text{ V}, I_E = 0$
Collector to emitter saturation voltage	V _{CE(sat)}	—	—	0.5	V	$I_{C} = 30 \text{ mA}, I_{B} = 3 \text{ mA}$
DC current transfer ratio	h _{FE}	60	—	150		$V_{CE} = 6 V, I_C = 2 mA$
Gain bandwidth product	f⊤	—	80	_	MHz	$V_{CE} = 6 V, I_C = 5 mA$
Collector output capacitance	Cob		1.5		pF	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$



Main Characteristics

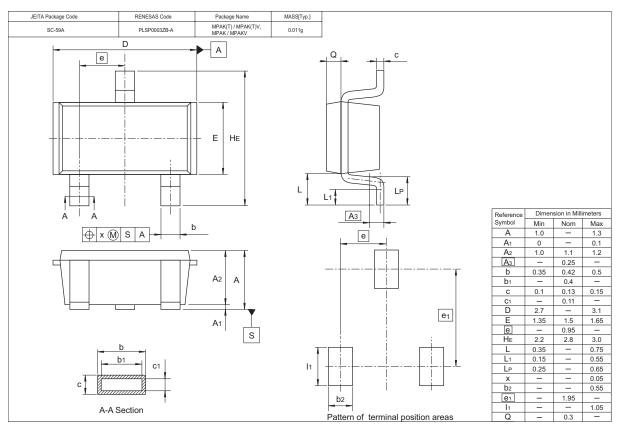








Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC4702XV-TR-E	3000	φ 178 mm Reel, 8 mm Emboss Taping

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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