# Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1<sup>st</sup>, 2010

**Renesas Electronics Corporation** 

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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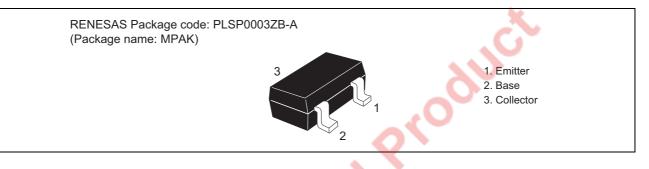


REJ03G0703-0200 (Previous ADE-208-1070) Rev.2.00 Aug.10.2005

### Application

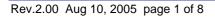
High frequency amplifier

### Outline



### **Absolute Maximum Ratings**

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	30	V
Collector to emitter voltage	V <sub>CEO</sub>	30	V
Emitter to base voltage	V <sub>EBO</sub>	5	V
Collector current	lc	100	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
FOL.			





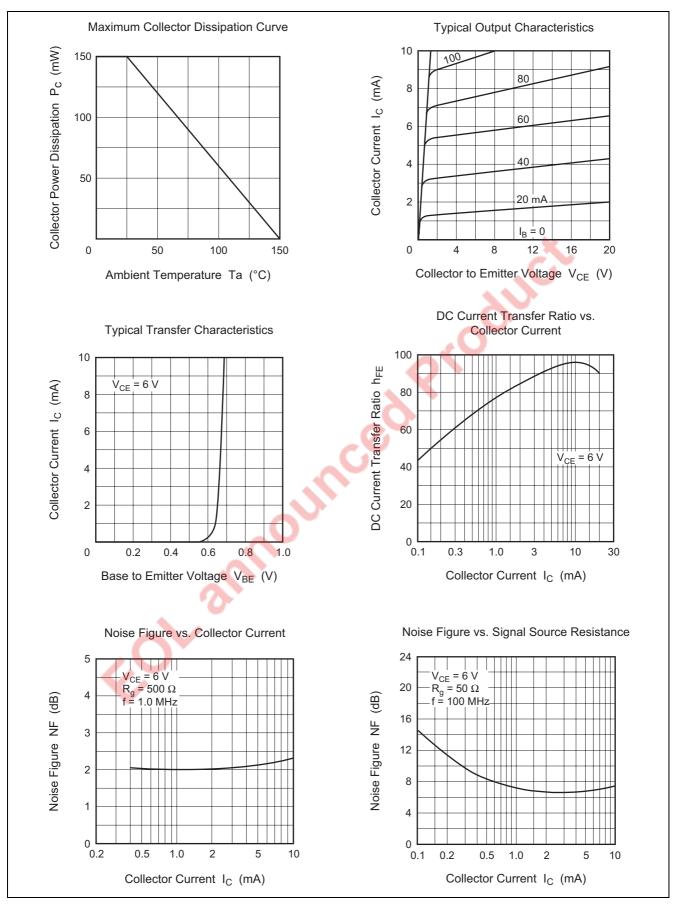
## **Electrical Characteristics**

Item ase breakdown mitter breakdow se breakdown v off current current	vn voltage	Symbol		-	B = -		
mitter breakdov se breakdown v off current	vn voltage	11	Min	Тур	Мах	Unit	Test conditions
se breakdown v off current	-	V <sub>(BR)CBO</sub>	30			V	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$
off current		V <sub>(BR)CEO</sub>	30			V	$I_{\rm C} = 1 \text{ mA}, R_{\rm BE} = \infty$
	oltage	V <sub>(BR)EBO</sub>	5	—	-	V	$I_E = 10 \ \mu A, I_C = 0$
current		I <sub>CBO</sub>	_		0.5	μA	$V_{CB} = 20 \text{ V}, \text{ I}_{C} = 0$
ansfer ratio		I <sub>EBO</sub> h <sub>FE</sub> * <sup>1</sup>		_	0.5	μA	$V_{EB} = 2 V, I_C = 0$
	n voltaga		60	—	200	V	$V_{CE} = 12 \text{ V}, \text{ I}_{C} = 2 \text{ mA}$
mitter saturation	n vollage	V <sub>CE(sat)</sub>	—	—	1.1		$I_{C} = 10 \text{ mA}, I_{B} = 1 \text{ mA}$ $V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$
							$V_{CE} = 12 \text{ V}, \text{ Ic} = 2 \text{ mA}$ $V_{CE} = 12 \text{ V}, \text{ Ic} = 2 \text{ mA}$
							$V_{CB} = 10 \text{ V}, \text{ Ic} = 2 \text{ mA}$ $V_{CB} = 10 \text{ V}, \text{ Ic} = 0, \text{ f} = 1 \text{ MHz}$
				5.0		-	$V_{CE} = 6 V_{1} I_{C} = 2 mA,$
ne 2SC2619 is g	grouped by h	IFE as follows	S.	l			
В	С						
FB	FC						
60 to 120	100 to 200						
		no	JU				
.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
	ne 2SC2619 is B FB 60 to 120	th product out capacitance ne 2SC2619 is grouped by r B C FB FC 60 to 120 100 to 200	th product f <sub>T</sub> but capacitance Cob NF	th product $f_T$ put capacitance     Cob        NF        ne 2SC2619 is grouped by hFE as follows.       B     C       FB     FC       60 to 120     100 to 200	th product     fT     -     230       put capacitance     Cob     -     -       NF     -     5.0   the 2SC2619 is grouped by hFE as follows.       B     C       FB     FC       60 to 120     100 to 200	th product $f_T$ -     230     -       put capacitance     Cob     -     -     3.5       NF     -     5.0     -   the 2SC2619 is grouped by hFE as follows.       B     C       FB     FC       60 to 120     100 to 200	th product $f_T$ $ 230$ $-$ MHz         put capacitance       Cob $  3.5$ pF         NF $ 5.0$ $-$ dB         ne 2SC2619 is grouped by hFE as follows. $\overline{FB}$ $\overline{FC}$ $\overline{60}$ to 120 $100$ to 200

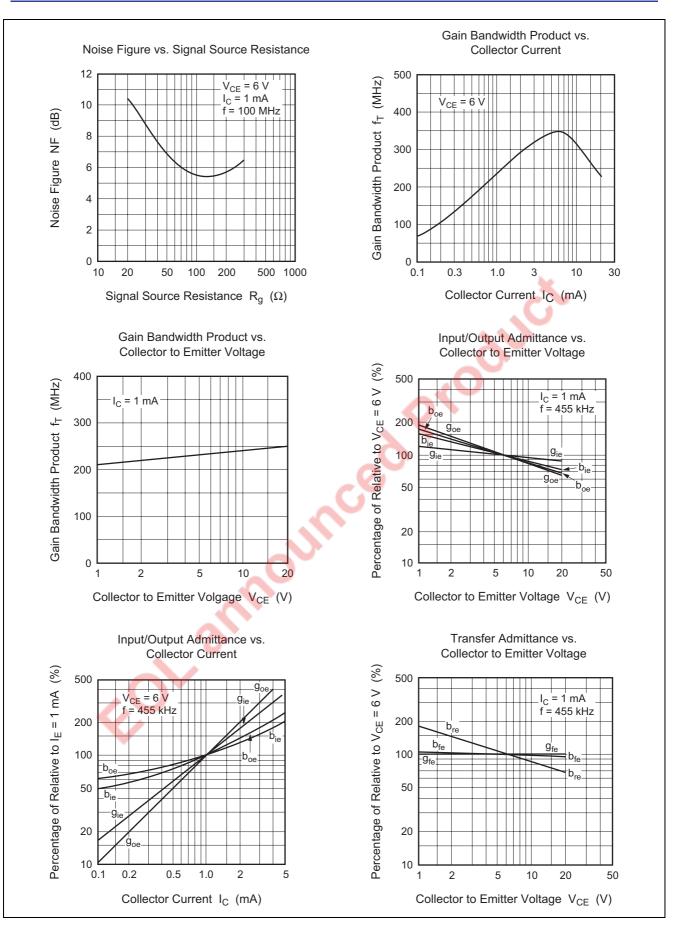
Grade	В	С
Mark	FB	FC
h <sub>FE</sub>	60 to 120	100 to 200



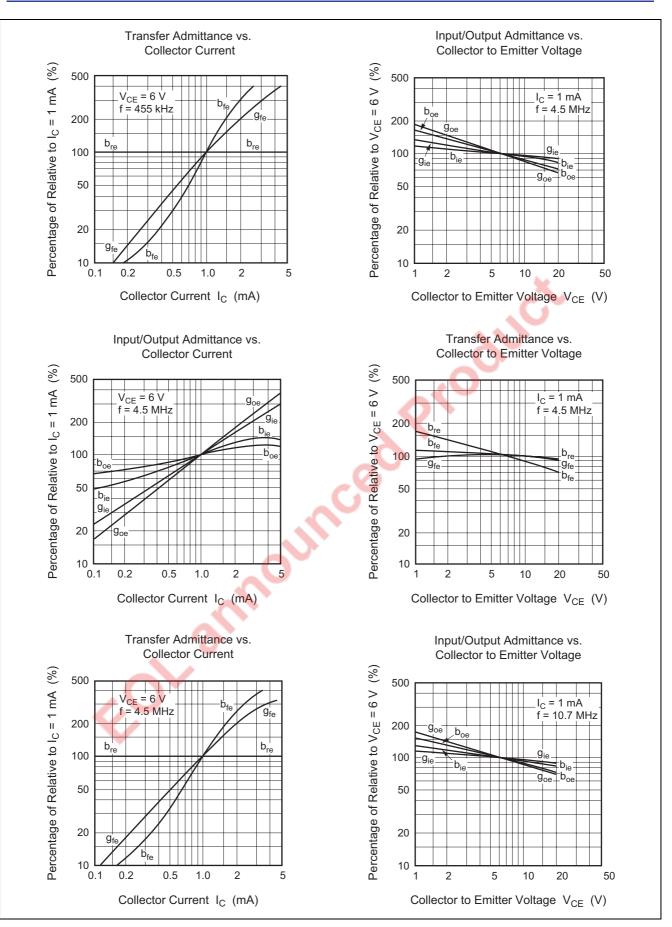
### **Main Characteristics**



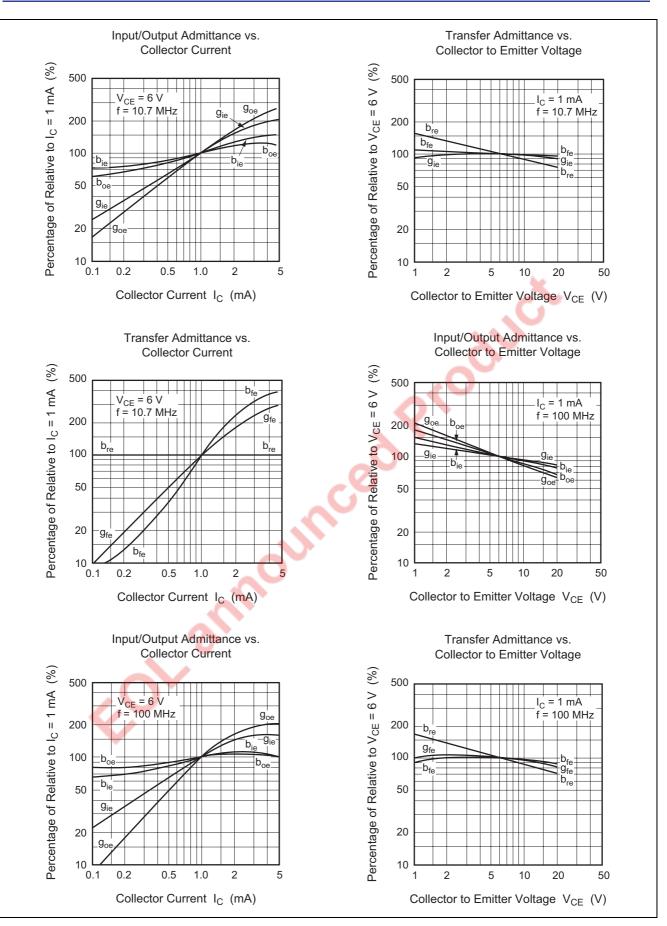




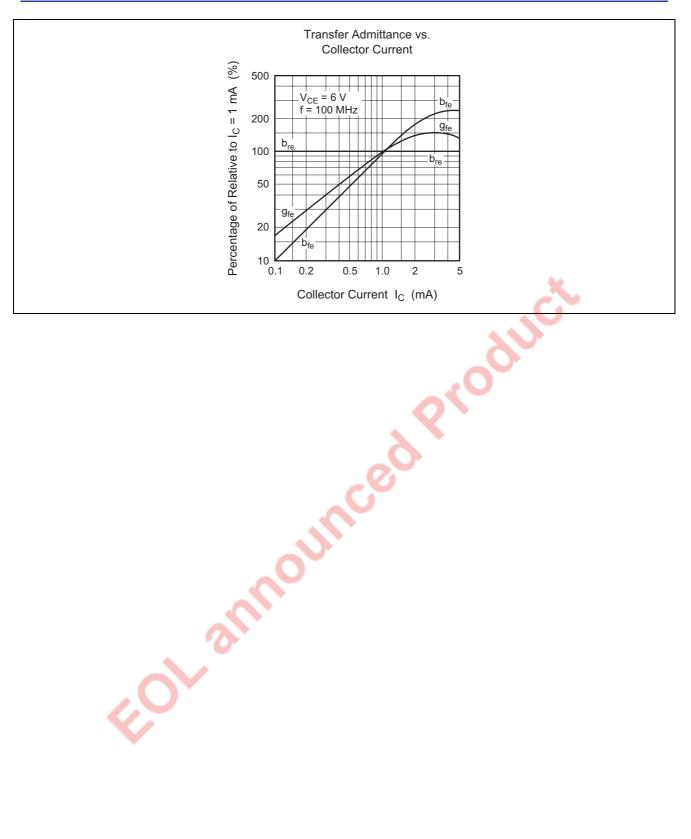






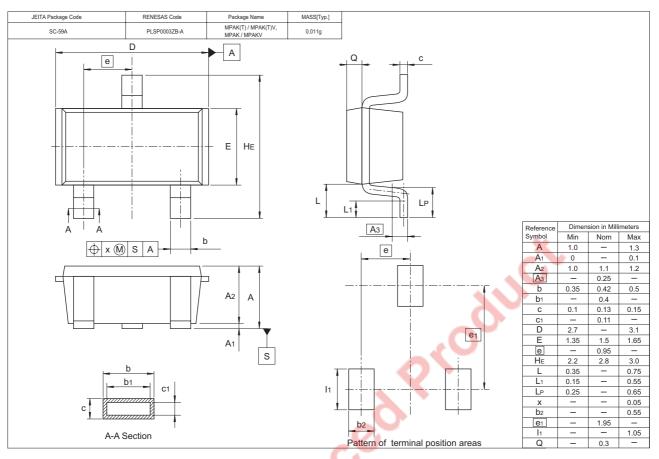








## **Package Dimensions**



## **Ordering Information**

Part Name	Quantity	J.	Shipping Container
2SC2619FBTR-E	3000		φ 178 mm Reel, 8 mm Emboss Taping
2SC2619FCTR-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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**RENESAS SALES OFFICES** 

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#### Renesas Technology Singapore Pte. Ltd.

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#### Renesas Technology Malaysia Sdn. Bhd.

Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510