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

April 1st, 2010

Renesas Electronics Corporation

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

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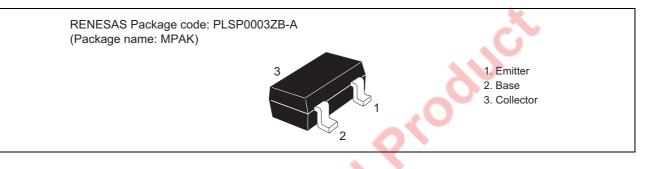


REJ03G0703-0200 (Previous ADE-208-1070) Rev.2.00 Aug.10.2005

Application

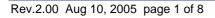
High frequency amplifier

Outline



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	30	V
Collector to emitter voltage	V _{CEO}	30	V
Emitter to base voltage	V _{EBO}	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.			





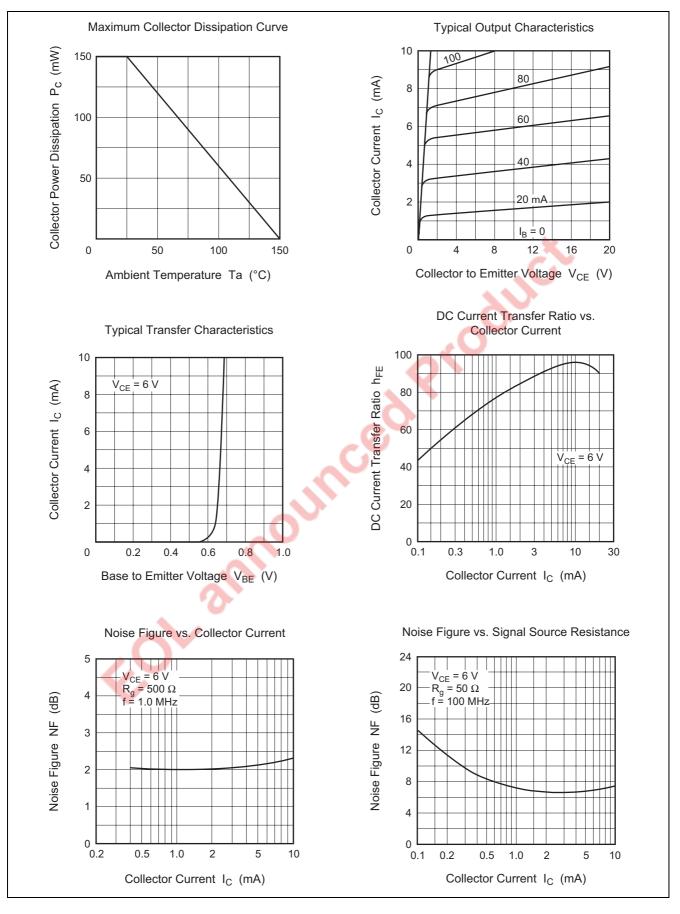
Electrical Characteristics

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 _{(BR)CBO}	30			V	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$
off current		V _{(BR)CEO}	30			V	$I_{\rm C} = 1 \text{ mA}, R_{\rm BE} = \infty$
	oltage	V _{(BR)EBO}	5	—	-	V	$I_E = 10 \ \mu A, I_C = 0$
current		I _{CBO}	_		0.5	μA	$V_{CB} = 20 \text{ V}, \text{ I}_{C} = 0$
ansfer ratio		I _{EBO} h _{FE} * ¹		_	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 _{CE(sat)}	—	—	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 _T 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

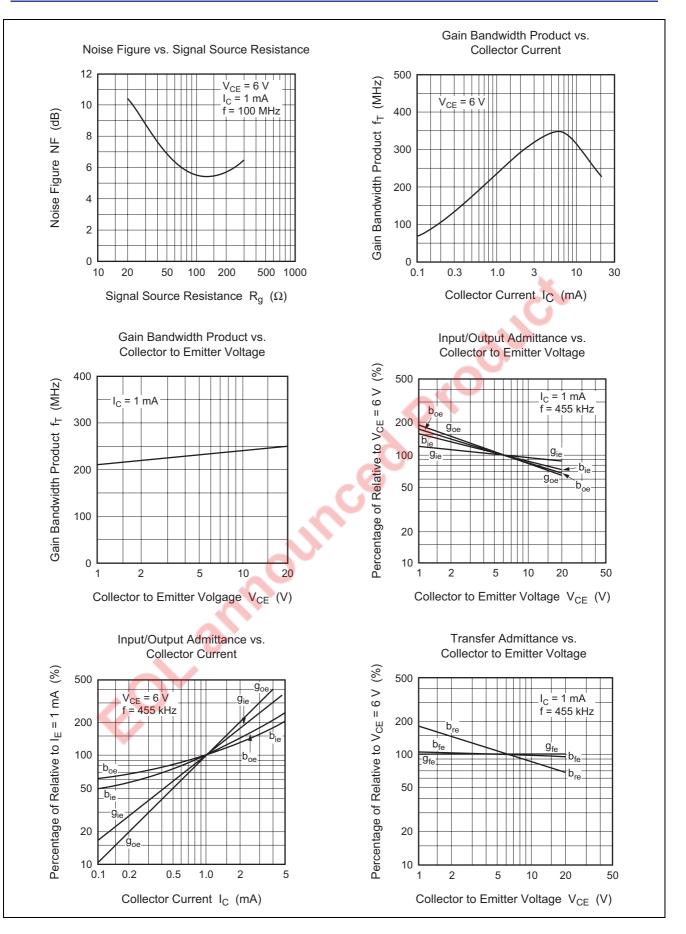
Grade	В	С
Mark	FB	FC
h _{FE}	60 to 120	100 to 200



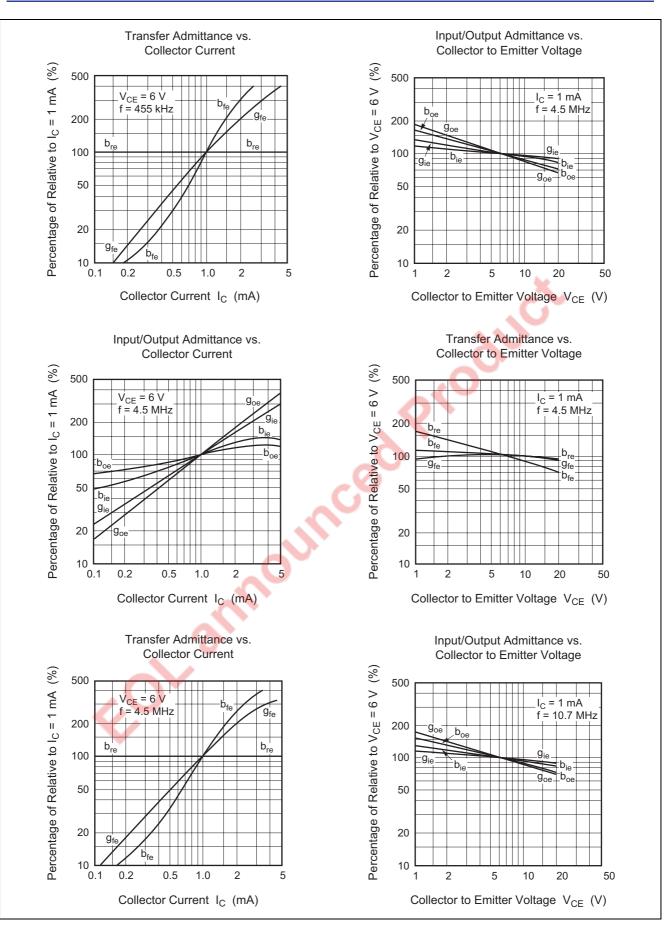
Main Characteristics



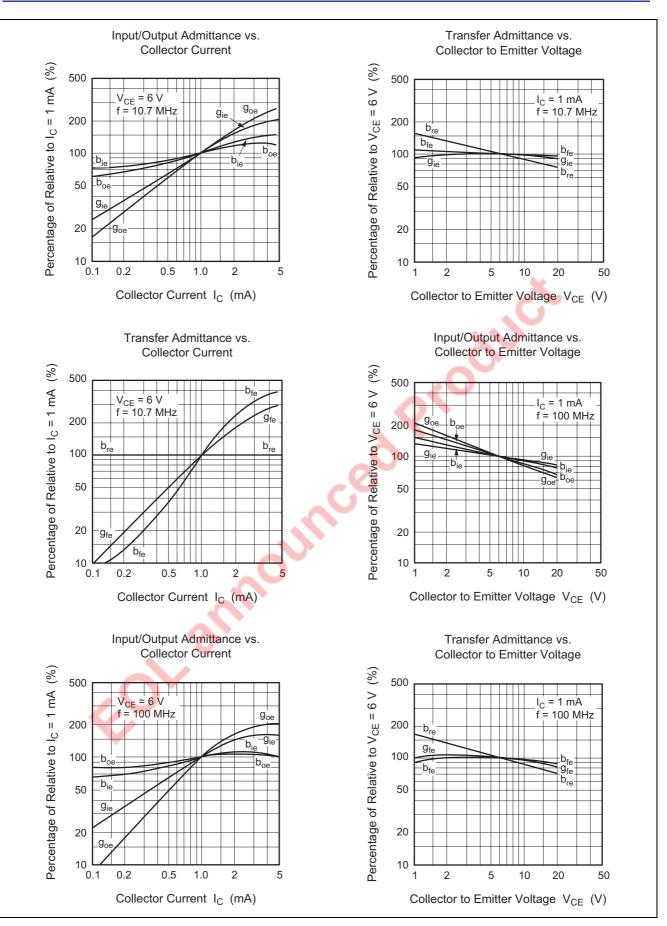




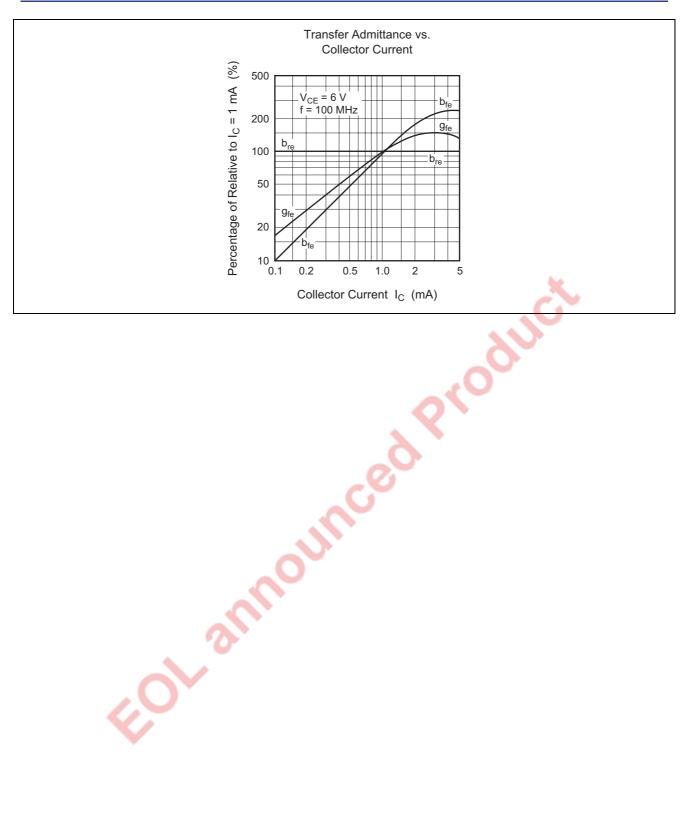






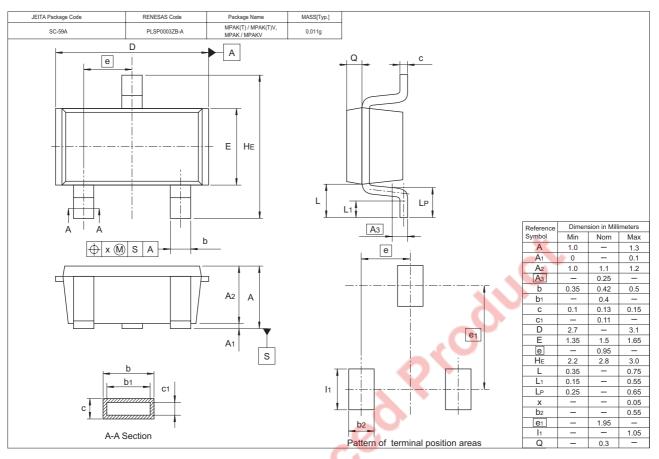








Package Dimensions



Ordering Information

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

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