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April 1st, 2010 Renesas Electronics Corporation

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

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2SC2619

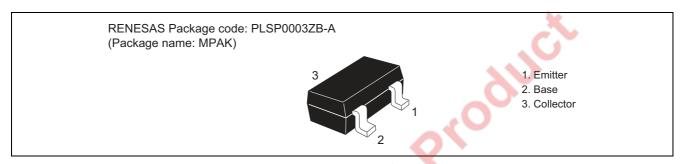
Silicon NPN Epitaxial

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	$V_{\sf CEO}$	30	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	Ic	100	mA
Collector power dissipation	P _C	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

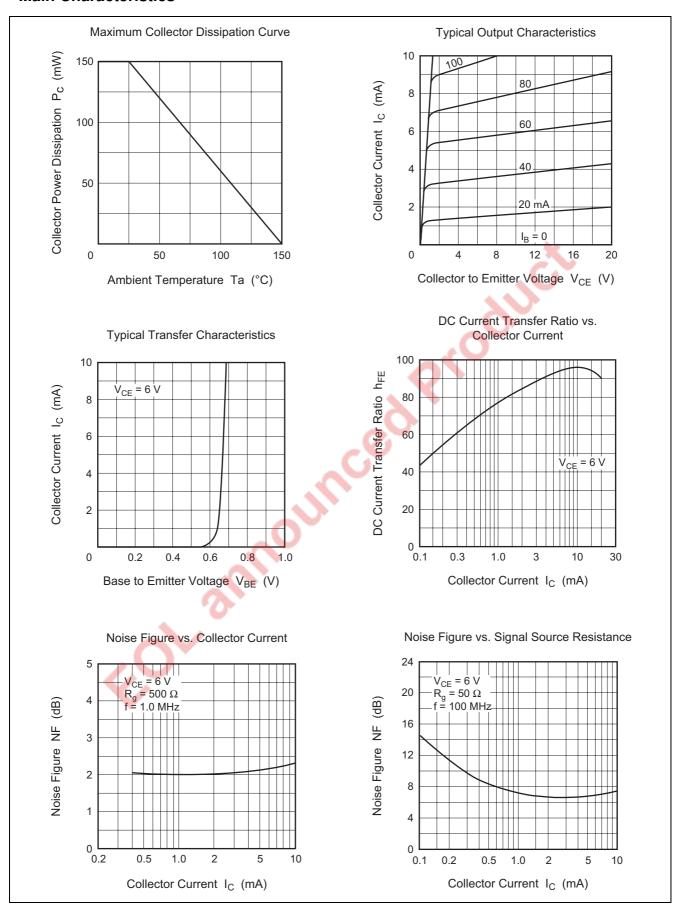
 $(Ta = 25^{\circ}C)$

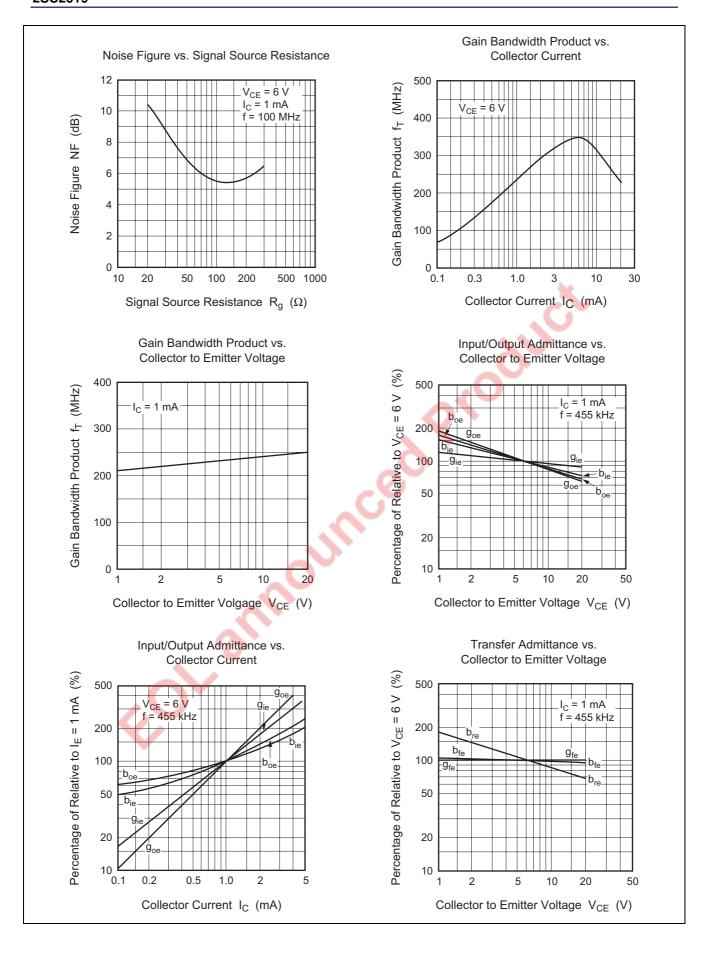
	Item		Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage		V _{(BR)CBO}	30		_	V	$I_C = 10 \propto A, I_E = 0$	
Collector to base breakdown voltage		-	V _{(BR)CEO}	30	_	_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
-	e breakdown v		V _{(BR)EBO}	5	_	_	V	$I_{E} = 10 \propto A$, $I_{C} = 0$
Collector cuto		90	I _{CBO}	_	_	0.5	∞A	$V_{CB} = 20 \text{ V}, I_C = 0$
Emitter cutoff			I _{EBO}	_	_	0.5	∞A	$V_{EB} = 2 \text{ V}, I_C = 0$
DC current tra			h _{FE} *1	60	_	200		$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$
-	mitter saturation	n voltage	V _{CE(sat)}	_	_	1.1	V	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$
Base to emitte		Ŭ	V _{BE}	_	_	0.75	V	$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$
Gain bandwid			f _T	_	230	_	MHz	$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$
-	ut capacitance		Cob		_	3.5	pF	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$
Noise figure			NF	_	5.0	_	dB	$V_{CE} = 6 \text{ V}, I_{C} = 2 \text{ mA},$
								$f = 1 \text{ MHz}, R_g = 500 \Omega$
-	e 2SC2619 is	· · ·	n _{FE} as follows	s.				, C) T
Grade	В	С						
Mark	FB	FC						
h _{FE}	60 to 120	100 to 200						J
Mark FB FC hre 60 to 120 100 to 200								

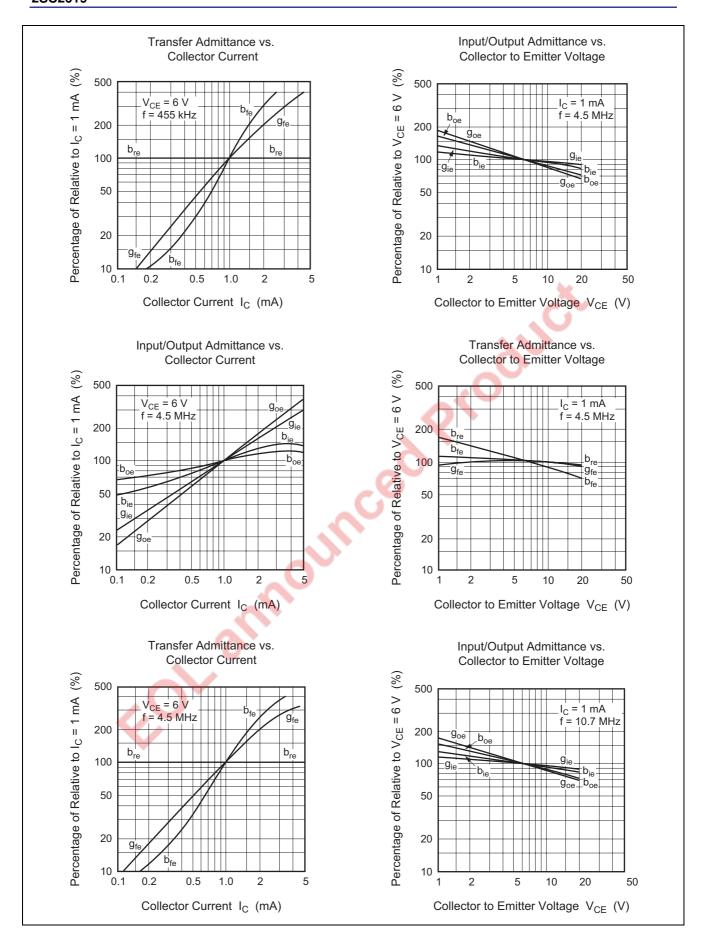
Note: 1. The 2SC2619 is grouped by hFE as follows.

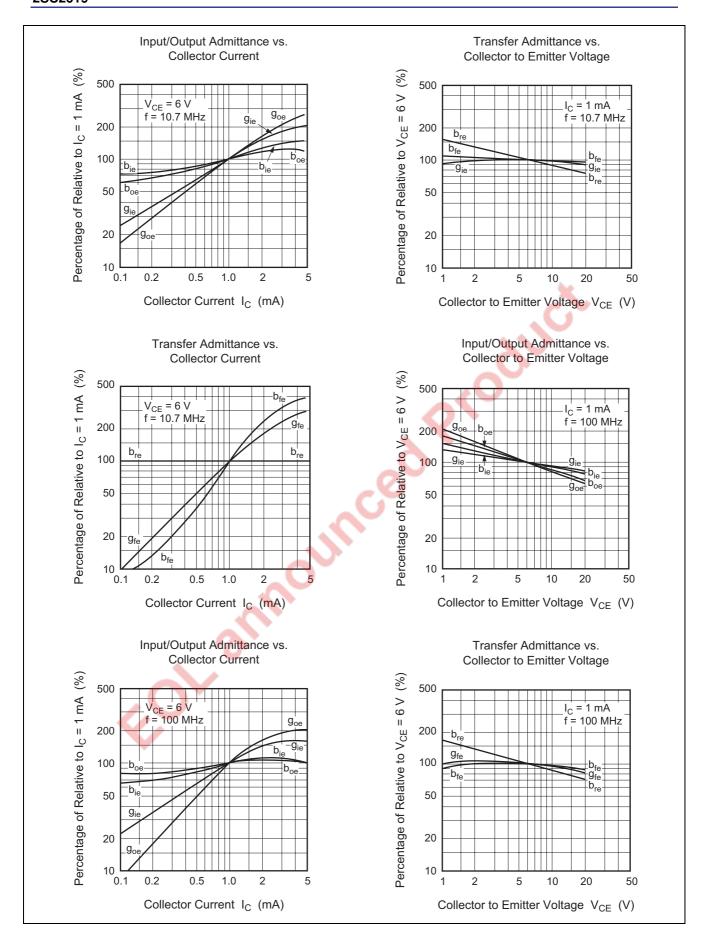
Grade	В	С
Mark	FB	FC
h _{FE}	60 to 120	100 to 200

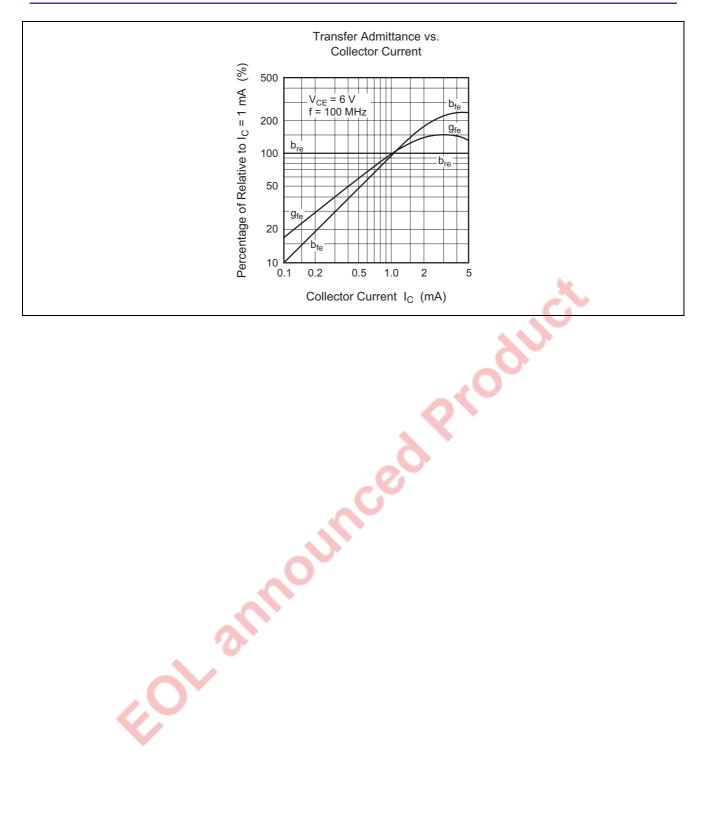
Main Characteristics



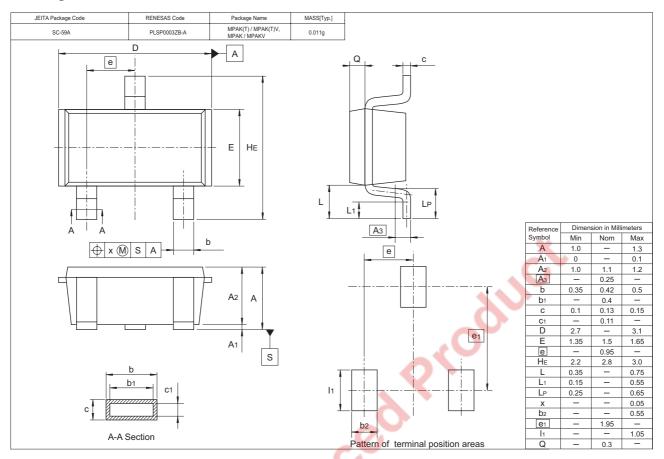








Package Dimensions



Ordering Information

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

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