

2SC5850

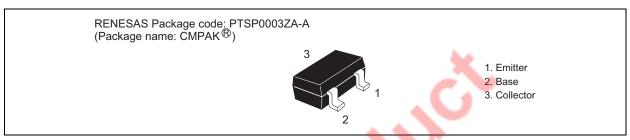
Silicon NPN Epitaxial

REJ03G0760-0100 (Previous ADE-208-1479) Rev.1.00 Aug.10.2005

Features

Low frequency amplifier

Outline



*CMPAK is a trademark of Renesas Technology Corp.

Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	50	V
Collector to emitter voltage	V _{CEO}	40	V
Emitter to base voltage	V _{EBO}	5	V
Collector current	I _C	100	mA
Emitter current	I _E	-100	mA
Collector power dissipation	Pc*	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +125	°C

^{*}Value on the glass epoxy board (10 mm x 10 mm x 0.7 mm)

Electrical Characteristics

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

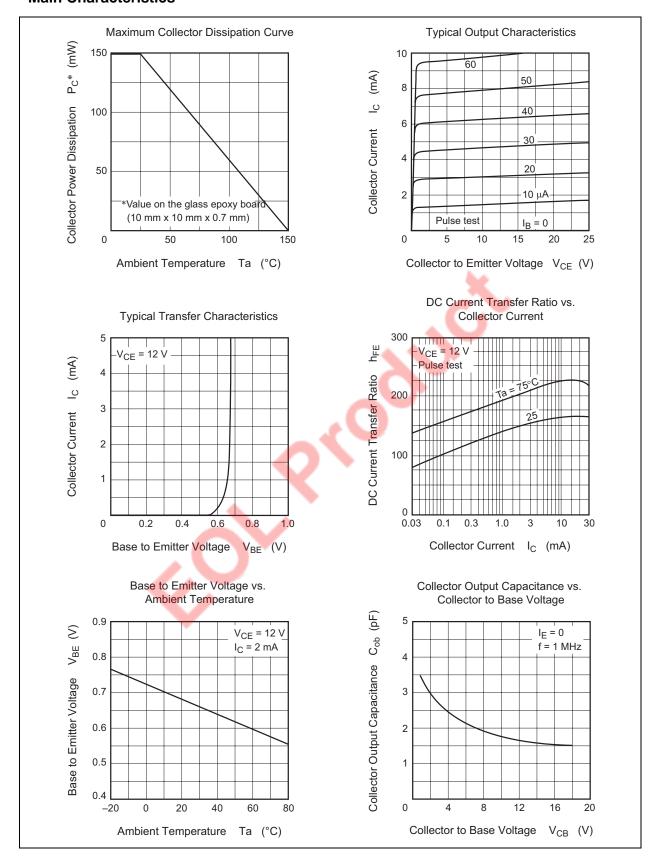
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	50	_		V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	40	_		V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	0.5	μΑ	$V_{CB} = 30 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	_	_	0.5	μΑ	$V_{EB} = 2 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE} *1	100	_	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	$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$

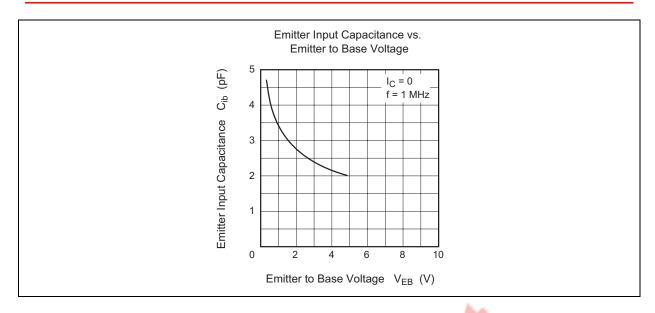
Notes: 1. The 2SC5850 is grouped by h_{FE} as follows.

Grade	В	С	D
Mark	LB	LC	LD
h _{FE}	100 to 200	160 to 320	250 to 500

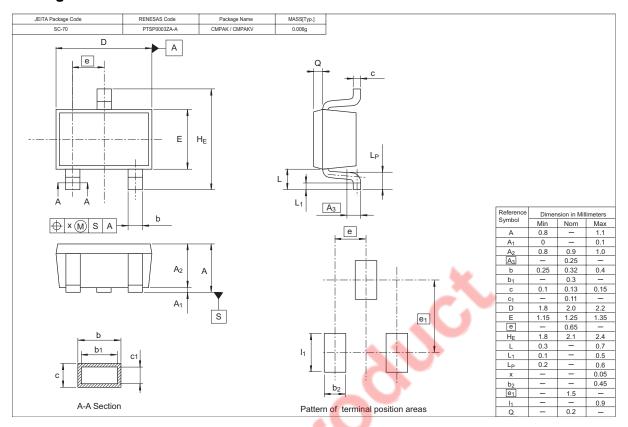


Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity		Shipping Container
2SC5850LBTL-E	3000	-	φ 178 mm Reel, 8 mm Emboss Taping
2SC5850LCTL-E			
2SC5850LDTL-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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