2SB857

PNP SILICON TRANSISTOR

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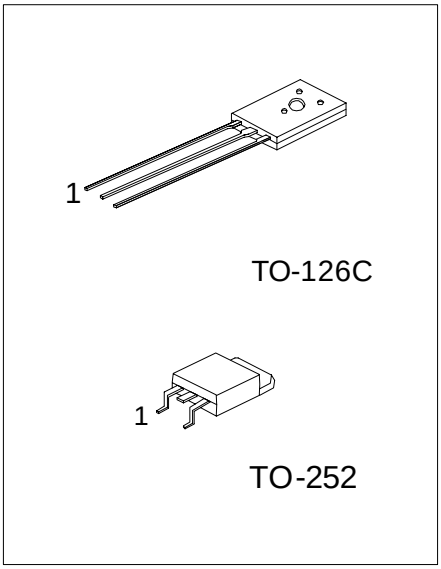

*Pb-free plating product number: 2SB857L

■ DESCRIPTION

Low frequency power amplifier.

■ ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
2SB857-x-T6C-K	2SB857L-x-T6C-K	TO-126C	E	C	B	Bulk
2SB857-x-TN3-R	2SB857L-x-TN3-R	TO-252	B	C	E	Tape Reel
2SB857-x-TN3-T	2SB857L-x-TN3-T	TO-252	B	C	E	Tube

2SB857L-x-T6C-K

(1)Packing Type
(2)Package Type
(3)Rank
(4)Lead Plating

(1) K: Bulk, R: Tape Reel, T: Tube
(2) T6C: TO-126C, TN3: TO-252
(3) x: refer to Classification of h_{FE2}
(4) L: Lead Free Plating, Blank: Pb/Sn

■ ABSOLUTE MAXIMUM RATING (Ta=25℃)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltages		V_{CBO}	-130	V
Collector-Emitter Voltage		V_{CEO}	-100	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		I_C	-4	A
Collector Current (I_C Peak)		$I_{C(PEAK)}$	-8	A
Total Power Dissipation	TO-126C	P_D	1.5	W
	TO-252		1.9	W
Junction Temperature		T_J	+150	℃
Storage Temperature		T_{STG}	-40 ~ +150	℃

Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (Ta=25℃)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	I_C=-10μA, I_E=0	-130			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C=-50mA, I_B=0	-100			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E=-10μA, I_C=0	-5			V
Collector-Emitter Saturation Voltage	*$V_{CE(SAT)}$	I_C=-2A, I_B=-0.2A			-1	V
Base-Emitter Saturation Voltage	*$V_{BE(ON)}$	V_{CE}=-4V, I_C=-1A			-1	V
Collector Cut-off Current	I_{CBO}	V_{CB}=-130V, I_C=0			-1	μA
DC Current Gain	*h_{FE1}	V_{CE}=-4V, I_C=-0.1A	35			
	*h_{FE2}	V_{CE}=-4V, I_C=-1A	60		320	
Transition Frequency	f_T	V_{CE}=-4V, I_C=-500mA, f=100MHz		15		MHz

Note *Pulse Test: Pulse Width≦380μS, Duty Cycle≦2%.

■ CLASSIFICATION OF h_{FE2}

CLASSIFICATION	B	C	D
RANGE	60 ~ 120	100 ~ 200	160 ~ 320

■ TYPICAL CHARACTERISTICS