

SANYO Semiconductors DATA SHEET

PNP / NPN Epitaxial Planar Silicon Transistors EC3101C / EC3201C — Low-Frequency General-Purpose **Amplifier Applications**

Features

· Ultraminiature package facilitates miniaturization in end products.

Specifications

(): EC3101C

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(-)55	V
Collector-to-Emitter Voltage	VCEO		(-)50	V
Emitter-to-Base Voltage	VEBO		(-)6	V
Collector Current	IC		(-)150	mA
Collector Current (Pulse)	ICP		(-)300	mA
Base Current	IB		(-)30	mA
Collector Dissipation	PC		150	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			11-14
			min	typ	max	Unit
Collector Cutoff Current	ICBO	VCB=(-)35V, IE=0			(-)0.1	μA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0			(-)0.1	μA
DC Current Gain	hFE	V _{CE} =(-)6V, I _C =(-)1mA	200		600	
Gain-Bandwidth Product	fT	VCE=(-)6V, IC=(-)10mA		(180)200		MHz
Output Capacitance	Cob	V _{CB} =(-)6V, f=1MHz		(2.9)1.7		pF
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	IC=(-)50mA, IB=(-)5mA		(-0.12)0.08	(-)0.4	V
Base-to-Emitter Saturation Voltage	VBE(sat)	IC=(-)50mA, IB=(-)5mA		(-)0.8	(-)1.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μA, I _E =0	(-)55			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=(-)1mA, RBE=∞	(-)50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	IE=(-)10μA, IC=0	(-)6			V

Marking EC3101C : G

EC3201C : H

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Package Dimensions

unit : mm









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EC3101C / EC3201C





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