SANYO

CPH6102/CPH6202

High-Current Switching Applications

Applications

· DC-DC converter, relay drivers, lamp drivers, motor drivers, strobes.

Features

- · Adoption of FBET, MBIT processes.
- · High current capacitance.
- · Low collector-to-emitter saturation voltage.
- · High-speed switching.
- · Ultrasmall package permitting applied sets to be made small and slim (0.9mm).
- · High allowable power dissipation.

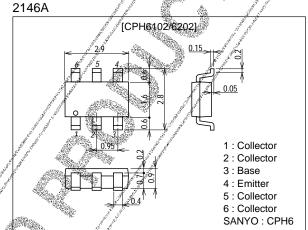
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Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

04404



Parameter	Symbol Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO	(–)60	V
Collector-to-Emitter Voltage	YCEO //	(–)50	V
Emitter-to-Base Voltage	VEBO ((-)5	V
Collector Current	// lc	(-)1.0	Α
Collector Current (Pulse)	ICR	(-)2	Α
Collector Dissipation	Pc Mounted on a ceramic board (600mm²×0.8mm)	1.3	W
Junction Temperature	11/20%	150	°C
Storage Temperature	Tstg	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter Symbol Conditions		Ratings		Unit
Tarantee Symbol Conditions	min	typ	max	Offic
Collector Cutoff Current CDBO VCB=(-)50V, IE=0			(–)100	nA
Emitter Cutoff Current I _{EBQ} / V _{EB} =(-)4V, I _C =0			(–)100	nA
DC Current Gain h _E £1 V _{CE} =(-)2V, I _C =(-)100mA	200		560	
DC Current Gain	30			
Gain-Bandwidth Product V _{CE} =(–)10V, I _C =(–)50mA		150		MHz
Output Capacitance Cob V _{CB} =(-)10V, r(2-(-)56/H/X		(12)8.5		pF

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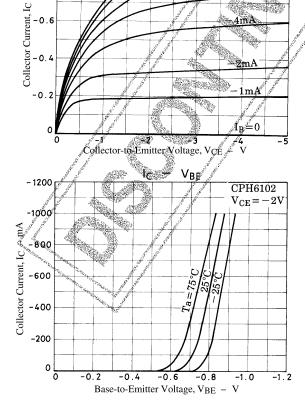
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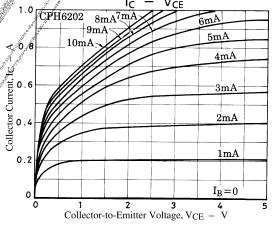
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

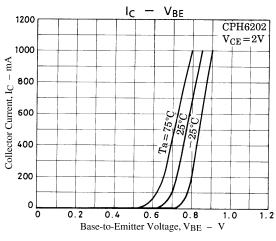
CPH6102/CPH6202

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Parameter	Symbol Conditions	Ratings			Unit	
i aiailletei	Symbol	Conditions	min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V	I _C =(-)500mA, I _B =(-)50mA		(-180)	(-500)	mV
	V _{CE(sat)}		<i>3</i> ×.	120	300	mV
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA	1 100	··.(<u>-</u>)0.9	(-)1.2	V
Collector-to-Base Breakdown Voltage	V _{(BR)CBO}	I _C =(-)10μΑ, I _E =0	<i>∮</i> (≠)60°	St. Act. Belleville St. Belleville		V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(–)1mA, R _{BE} =∞	<i>,</i> (–)50	The state of	Sales States	V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =(–)10μA, I _C =0	(-)5	Ì	A BOLL BOLL BOLL	. V
Turn-ON Time	ton	See specified test circuit.	457	40(40)	100	ทร
Storage Time		See specified test circuit.	-5400a	350	34.56	ns
	^t stg	See specified test circuit.		(300)		ns
Fall Time	t _f	See specified test circuit.		30(30)	September 1	ns
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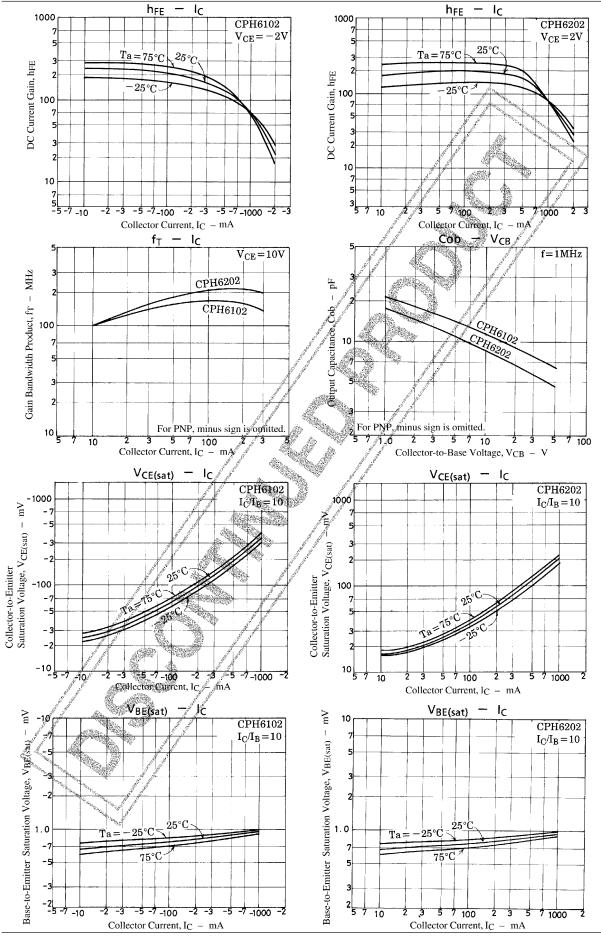




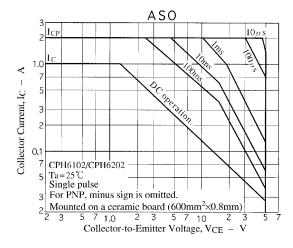


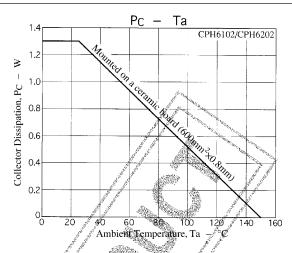
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CPH6102/CPH6202



CPH6102/CPH6202





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