Low frequency amplifier

US6T4

Application

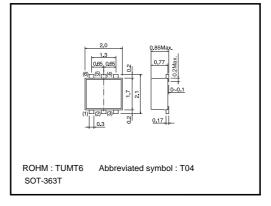
Low frequency amplifier Driver

Features

1) A collector current is large.

- 2) VCE(sat) : max. -250mV
- At Ic=-1.5A / IB=-30mA

•Dimensions (Unit : mm)



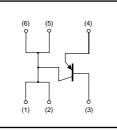
•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-15	V
Collector-emitter voltage	VCEO	-12	V
Emitter-base voltage	Vebo	-6	V
Collector current	lc	-3	A
Collector current	ICP	-6	A *1
Power dissipation	Pc	400	mW *2
	FC	1.0	W *3
Junction temperature	Tj	150	°C
Range of storage temperature	Tsta	-55 to +150	°C.

ange of storage

*1 Single pulse, Pw=1ms *2 Each Termminal Mounted on a Recommended *3 Mounted on a 25mm×25mm×10.8mm Ceramic substrate.

•Equivalent circuit



•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-15	-	_	V	Ic=-10μA
Collector-emitter breakdown voltage	BVCEO	-12	_	_	V	Ic=-1mA
Emitter-base breakdown voltage	ВУево	-6	-	_	V	Iε= -10μA
Collector cutoff current	Ісво	-	-	-100	nA	Vcb=-15V
Emitter cutoff current	Іево	-	-	-100	nA	VEB=-6V
Collector-emitter saturation voltage	VCE(sat)	-	-120	-250	mV	Ic= –1.5А, Iв= –30mА
DC current gain	hfe	270	_	680	_	Vce= -2V, Ic= -500mA *
Transition frequency	f⊤	_	280	_	MHz	Vce= -2V, Ie=500mA, f=100MHz *
Collector output capacitance	Cob	-	30	-	рF	Vcb=-10V, IE=0A, f=1MHz

* Pulsed



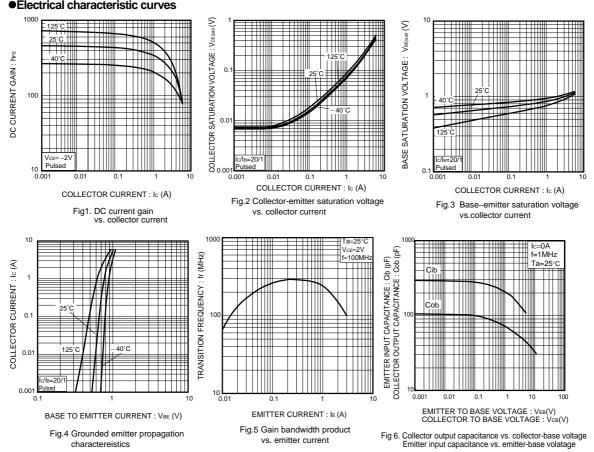
1/2

Transistors

Packaging specifications

	Package	Taping
Туре	Code	TR
	Basic ordering unit (pieces)	3000
US6T4		0

•Electrical characteristic curves



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