Low frequency amplifier **QST4**

Application

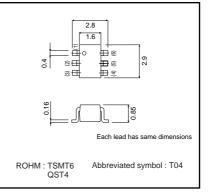
Low frequency amplifier Driver

Features

1) A collector current is large.

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

•External 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	А
	Іср	-6	A*1
Power dissipation	Pc	500	mW*2
		1.25	W *3
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

*1Single pulse, Pw=1ms

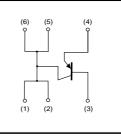
*2Each Termminal Mounted on a Recommended *3Mounted on a 25mm×25mm×10.8mm Ceramic substrate

●Electrical characteristics (Ta=25°C)

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

* Pulsed

Equivalent circuit

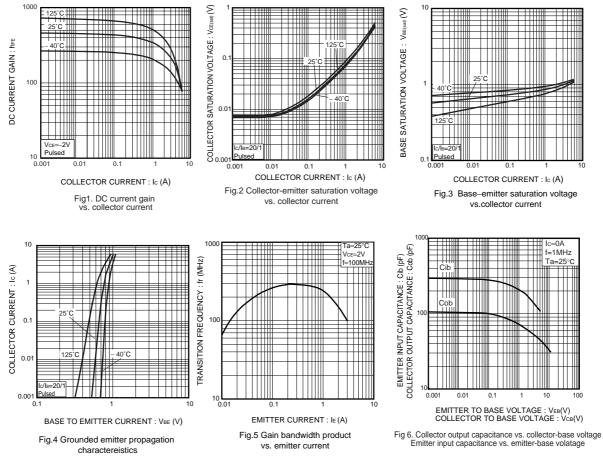


Transistors

Packaging specifications

	Package	Taping
Туре	Code	TR
	Basic ordering unit (pieces)	3000
QST4		0

•Electrical characteristic curves



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