General purpose amplification (-12V, -3A) QST2

Application

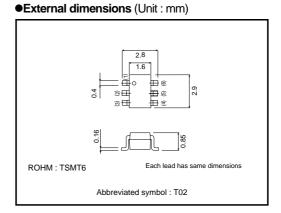
Low frequency amplifier Driver

Features

1) Collector current is large.

2) Collector saturation voltage is low.

 $V_{CE(sat)} \leq -250 mV$ at $I_{C} = -3A / I_{B} = -60mA$



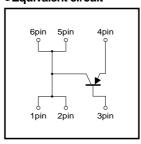
●Absolute maximum ratings (Ta=25°C)

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	-6	Α
Collector current	Іср	-10	A *1
Power dissipation	Pc	500	mW *2
Fower dissipation	FC	1.25	W *3
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

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

•Electrical characteristics (Ta=25°C)

Equivalent circuit



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	ВVево	-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= –3А, Iв= –60mА
DC current gain	hfe	270	-	680	_	Vce=-2V, Ic=-500mA *
Transition frequency	f⊤	-	250	-	MHz	Vce= -2V, Ie=500mA, f=100MHz *
Corrector output capacitance	Cob	_	80	_	pF	Vcb=-10V, IE=0A, f=1MHz
*Pulsed						

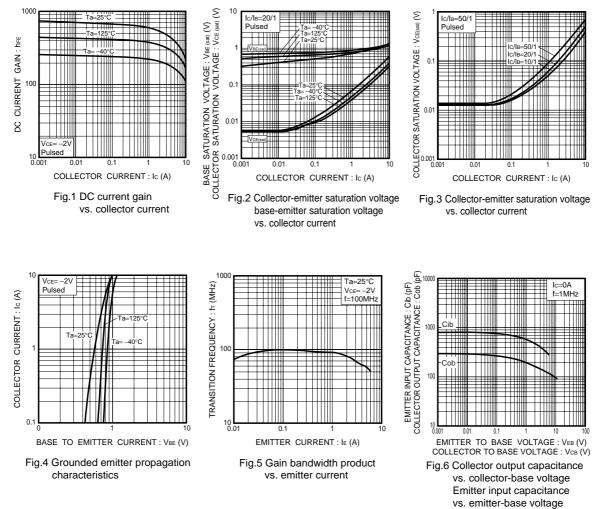
1/2

Transistors

Packaging specifications

	Package	Taping	
Туре	Code	TR	
	Basic ordering unit (pieces)	3000	
QST2		0	

•Electrical characteristic curves



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