# Low frequency amplifier

## 2SD2673

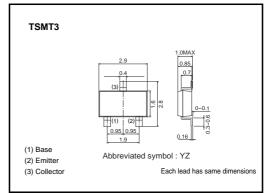
#### Application

Low frequency amplifier Driver

#### Features

- 1) A collector current is large. (3A)
- 2) VCE(sat) : max. 250mV
- At  $I_{C} = 1.5A / I_{B} = 30mA$

#### •External dimensions (Unit : mm)



#### Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	VCEO	30	V
Emitter-base voltage	Vebo	6	V
Collector current	lc	3	А
	Іср	6	A*1
Power dissipation	Pc	500	mW
		1*2	W
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C

\*1 Single pulse, Pw=1ms \*2 Mounted on a 25×25× t0.8mm Ceramic substrate

#### •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	30	-	-	V	Ic=10μA
Collector-emitter breakdown voltage	BVCEO	30	-	-	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	6	_	-	V	Iε=10μA
Collector cutoff current	Ісво	-	_	100	nA	Vcb=30V
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=200mA*
Transition frequency	f⊤	-	200	_	MHz	Vce=2V, Ie=-200mA, f=100MHz*
Collector output capacitance	Cob	-	40	-	pF	Vcb=10V, IE=0A, f=1MHz

\* Pulsed

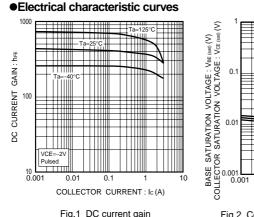
Packaging specifications

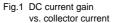
	Package	Taping
Туре	Code	TL
	Basic ordering unit (pieces)	3000
2SD2673		0

1/2

### 2SD2673

#### Transistors





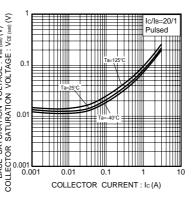


Fig.2 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

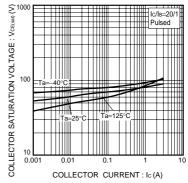


Fig.3 Collector-emitter saturation voltage vs. collector current

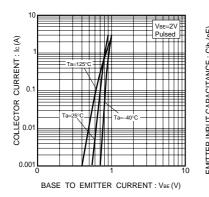
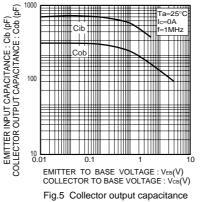


Fig.4 Grounded emitter propagation characteristics



Ig.5 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

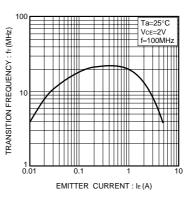
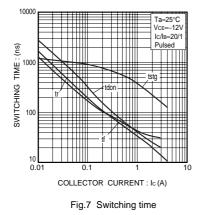


Fig.6 Gain bandwidth product vs. emitter current



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