## 2SD2657

WW.DZSC

Taping

TL

3000

 $\bigcirc$ 

Transistors

# Low frequency amplifier

## 2SD2657

#### Application

Low frequency amplifier Driver

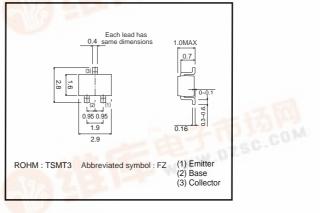
#### Features

1) A collector current is large. 2) VCE(sat) ≦ 350mV At Ic = 1A/IB = 50mA

#### •External dimensions (Units : mm)

 Packaging specifications Package

Туре 2SD2657 Code



Basic ordering unit (pieces)

#### 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	1.5	А
	Іср	3	A*1
Power dissipation	Pc	500	mW
		1* <sup>2</sup>	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×<sup>t</sup>0.8mm Ceramic substrate

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

#### Conditions Parameter Symbol Min. Тур. Max. Unit Collector-base breakdown voltage ВУсво 30 V Ic=10µA \_ \_ BVCEO 30 V Ic=1mA Collector-emitter breakdown voltage \_ \_ ВVево 6 V IE=10µA Emitter-base breakdown voltage \_ Collector cutoff current Ісво 100 nA VCB=30V \_ \_ Emitter cutoff current 100 Veb=6V **I**EBO \_ \_ nA Collector-emitter saturation voltage VCE(sat) 140 350 mV Ic=1A, IB=50mA 270 680 Vce=2V, Ic=100mA\* DC current gain hfe 300 Vce=2V, Ie=-100mA, f=100MHz\* Transition frequency fτ MHz \_ Cob VCB=10V, IE=0A, f=1MHz Corrector output capacitance 11 pF

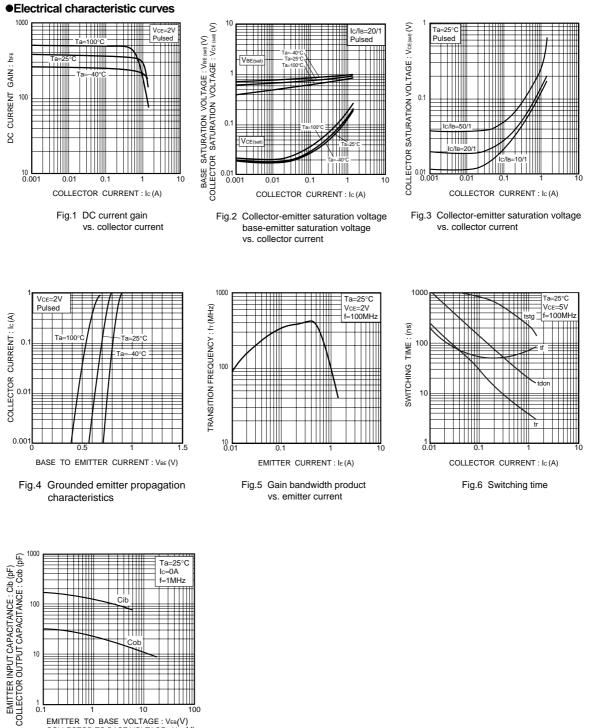
\* Pulsed

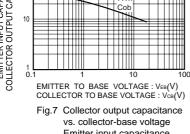




### 2SD2657

#### Transistors





Emitter input capacitance vs. emitter-base voltage

#### Appendix

#### Notes

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