# Low frequency amplifier

# 2SD2657K

## Application

Low frequency amplifier Driver

## Features

- 1) A collector current is large.
- 2)  $V_{CE(sat)} \leq 350 mV$

At  $I_C = 1A / I_B = 50mA$ 

# •External dimensions (Units : mm)

Packaging specifications

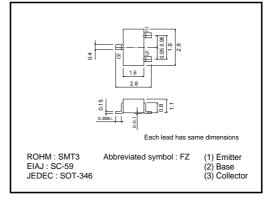
Туре

2SD2657K

Package

Basic ordering unit (pieces)

Code



### •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
Collector current	ICP	3	Α*
Power dissipation	Pc	200	mW
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55~+150	°C

\*Single pulse, Pw=1ms

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	ВVево	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)	-	160	350	mV	Ic=1A, IB=50mA
DC current gain	hfe	270	-	680	_	Vce=2V, Ic=100mA*
Transition frequency	fт	-	330	-	MHz	Vce=2V, Ie=-100mA, f=100MHz
Corrector output capacitance	Cob	-	11	-	pF	Vcb=10V, IE=0A, f=1MHz

\* Pulsed



Taping

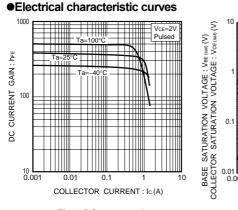
T146

3000

0

# 2SD2657K

# Transistors





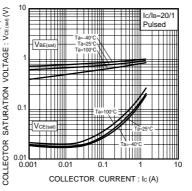


Fig.2 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

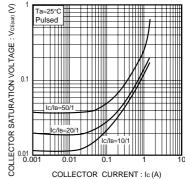
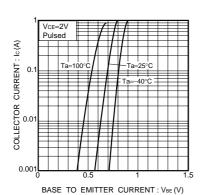
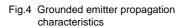
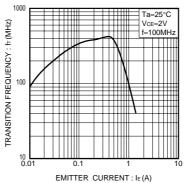
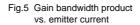


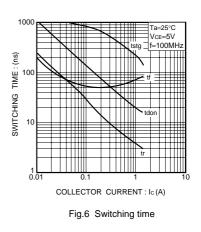
Fig.3 Collector-emitter saturation voltage vs. collector current

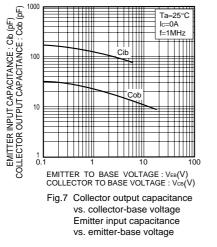


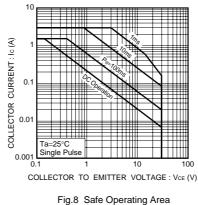












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# 2SD2657K - Web Page

**Distribution Inventory** 

Part Number	2SD2657K
Package	SMT3
Unit Quantity	3000
Minimum Package Quantity	3000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes