General purpose amplification (12V, 1.5A) 2SD2652

Application

Low frequency amplifier

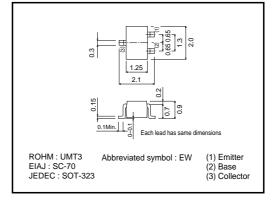
Features

1) A collector current is large.

2) Collector saturation voltage is low. $V_{CE(sat)} \leq 200 mV$

At Ic = 500mA / I_B = 25mA

• External dimensions (Units : 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	Vево	6	V
	lc	1.5	Α
Collector current	Іср	3	A *
Power dissipation	Pc	200	mW
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55~+150	°C

• Packaging specifications

	Package	Taping
	Code	T106
Туре	Basic ordering unit (pieces)	3000
2SD2652		0

*Single pulse, Pw=1ms

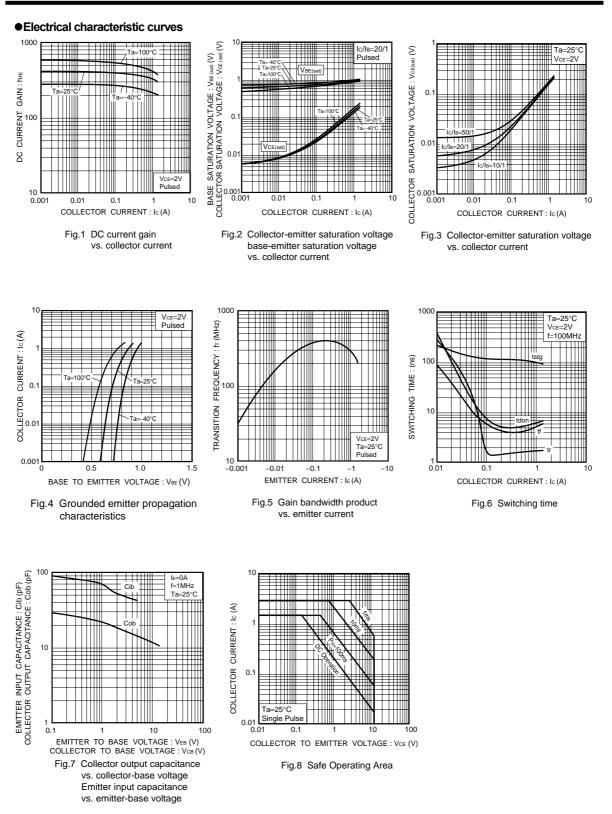
•Electrical characteristics (Ta=25°C)

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	Ιε=10μΑ
Collector cutoff current	Ісво	-	-	100	nA	Vcb=15V
Emitter cutoff current	Іево	-	-	100	nA	VEB=6V
Collector-emitter saturation voltage	VCE(sat)	-	80	200	mV	Ic/IB=500mA/25mA
DC current gain	hfe	270	-	680	-	Vce/lc=2V/200mA *1
Transition frequency	f⊤	-	400	-	MHz	Vce=2V, Ie=-200mA, f=100MHz *1
Corrector output capacitance	Cob	-	12	-	pF	Vcb=10V, IE=0A, f=1MHz
*1 Pulsed						



2SD2652

Transistors



ROHM

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