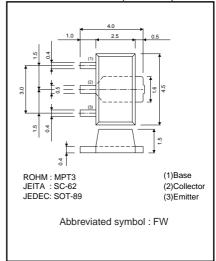
Low frequency amplifier transistor(12V, 2A) **2SD2661**

Features

 $Low \ V_{CE(sat)} \leq 180mV$ (Ic / IB = 1A / 50mA)

●External dimensions (Unit : 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	је Уево		V
Collector current	lc	2	A(DC)
Collector current		4	A(Pulse)*1
Callacter Dawer dissination	Pc	500	mW
Collector Power dissipation	PC	2 *2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

^{*1} Pw=1ms Single Pulse *2 Mounted on a 40×40×0.7mm ceramic substrcte

Packaging specifications

	Package	Taping
Type	Code	T100
	Basic ordering unit (pieces)	1000
2SD2661		0

●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	ВУЕВО	6	_	_	V	Iε=10μA
Collector cutoff current	Ісво	_	_	100	nA	VcB=15V
Emitter cutoff current	І ЕВО	_	_	100	nA	V _{EB} =6V
DC current transfer ratio	hfe	270	_	680	_	Vce=2V, Ic=200mA
Collector-emitter saturation voltage	VCE(sat)	_	90	180	mV	Ic / Iв=1A / 50mA
Transition frequency	f⊤	_	360	_	MHz	Vce=2V, Ie=-200mA, f=100MHz
Output capacitance	Cob	_	20	_	pF	Vcb=10V, Ie=0A, f=1MHz

•Electrical characteristic curves

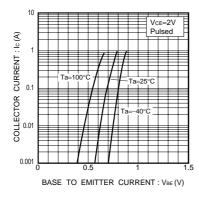


Fig.1 Grounded emitter propagation characteristics

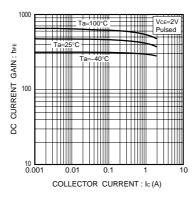


Fig.2 DC current gain vs. collector current

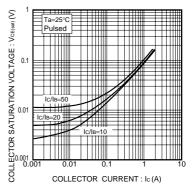


Fig.3 Collector-emitter saturation voltage vs. collector current

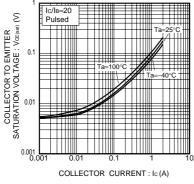


Fig.4 Base-emitter saturation voltage vs. collector current

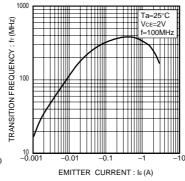


Fig.5 Gain bandwidth product vs. emitter current

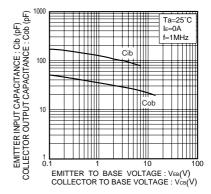


Fig.6 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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