Low frequency transistor (for amplification) **2SD2696**

Structure

NPN Silicon Epitaxial Planar Transistor

● Features

- 1) The transistor of 400mA class which went only with 2012 size conventionally is attained in 1208 size.
- 2) Collector saturation voltage is low.

 $V_{CE (sat)}$: max. 300mA at $I_{C} = 100$ mA / $I_{B} = 2$ mA

Applications

Switching

Packaging specifications

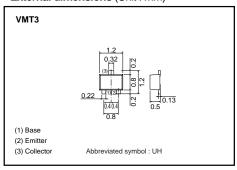
	Package	Taping	
Туре	Code	T2L	
	Basic ordering unit (pieces)	8000	
2SD2696		0	

● Absolute maximum ratings (Ta=25°C)

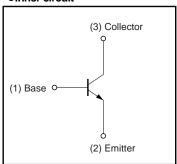
Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	6	V
Callantar assument	Ic	400	mA
Collector current	I _{CP} *1	800	mA
Power dissipation	Pp *2	150	mW / TOTAL
Junction temperature	Tj	150	°C
Range of storage temperature	Tstg	-55 to +150	°C
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*1 Pw=10ms, Single pulse

●External dimensions (Unit : mm)



•Inner circuit



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV _{CEO}	30	-	_	V	I _C =1mA
Collector-base breakdown voltage	ВУсво	30	-	_	V	I _C =10μA
Emitter-base breakdown voltage	BV _{EBO}	6	_	-	V	I _E =10μA
Collector cut-off current	Ісво	_	_	100	nA	V _{CB} = 30V
Emitter cut-off current	I _{EBO}	_	_	100	nA	V _{EB} = 6V
Collector-emitter saturation voltage	Vce (sat)	_	120	300	mV	I _C =100mA, I _B = 2mA
DC current gain	hfe	270	-	680	_	Vce=2V, Ic=100mA
Transition frequency	f⊤	_	400	_	MHz	Vce=2V, Ie= -100mA, f=100MHz
Output capacitance	Cob	_	3.0	_	pF	V _{CB} =10V, I _E = 0A, f=1MHz

^{*2} Each terminal mounted on a recommended land.

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Appendix1-Rev1.1

