# Low frequency transistor, complex (2-elements) Bipolar Transistor **EMX28**

## Structure

NPN Silicon Epitaxial Planar Transistor

### Features

- 1) Two 2SD2696 dies are incorpolated in the EMT6 package.
- 2) Collector saturation voltage is low.

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

## Applications

General purpose small signal amplifier

## Packaging specifications

Туре	Package	Taping	
	Code	T2R	
	Basic ordering unit (pieces)	8000	
EMX28		0	

## ●Absolute maximum ratings (Ta=25°C)

## <Tr1, Tr2>

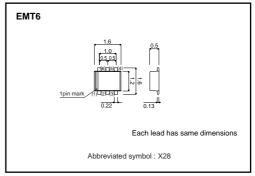
3111, 1122						
Parameter	Symbol	Limits	Unit			
Collector-base voltage	Vсво	30	V			
Collector-emitter voltage	V <sub>CEO</sub>	30	V			
Emitter-base voltage	V <sub>EBO</sub>	6	V			
Callagtar augment	Ic	400	mA			
Collector current	Icp *1	800	mA			
Dower dissination	Pp *2	150	mW / TOTAL			
Power dissipation	FD	120	mW / ELEMENT			
Junction temperature	Tj	150	°C			
Range of storage temperature	Tstg	-55 to +150	°C			

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

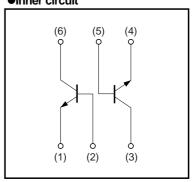
## <Tr1. Tr2>

<u> </u>							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	30	_	_	V	I <sub>C</sub> =1mA	
Collector-base breakdown voltage	ВУсво	30	-	-	V	I <sub>C</sub> =10μA	
Emitter-base breakdown voltage	ВУево	6	_	_	V	I <sub>E</sub> =10μA	
Collector cut-off current	Ісво	-	-	100	nA	V <sub>CB</sub> = 30V	
Emitter cut-off current	ІЕВО	_	_	100	nA	V <sub>EB</sub> = 6V	
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	_	120	300	mV	I <sub>C</sub> =100mA, I <sub>B</sub> = 2mA	
DC current gain	h <sub>FE</sub>	270	-	680	-	V <sub>CE</sub> =2V, I <sub>C</sub> =100mA	
Transition frequency	f⊤	-	400	-	MHz	VcE=2V, IE= -100mA, f=100MHz	
Output capacitance	Cob	_	3.0	_	pF	V <sub>CB</sub> =10V, I <sub>E</sub> = 0A, f=1MHz	

## ●External dimensions (Unit : mm)



## ●Inner circuit



<sup>\*1</sup> Pw=10ms, Single pulse \*2 Each terminal mounted on a recommended land.

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