# 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 Ic = 100mA / IB = 2mA

## Applications

General purpose small signal amplifier

## Packaging specifications

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

## Absolute maximum ratings (Ta=25°C)

<Tr1, Tr2>

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	VCEO	30	V
Emitter-base voltage	VEBO	6	V
	lc	400	mA
Collector current	ICP *1	800	mA
Rower dissinction	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

Output capacitance

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

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	30	-	-	V	Ic=1mA
Collector-base breakdown voltage	ВVсво	30	-	-	V	I <sub>C</sub> =10μA
Emitter-base breakdown voltage	ВVево	6	-	-	V	Iε=10μA
Collector cut-off current	Ісво	-	-	100	nA	V <sub>CB</sub> = 30V
Emitter cut-off current	Іево	-	-	100	nA	Veb= 6V
Collector-emitter saturation voltage	VCE (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=100M

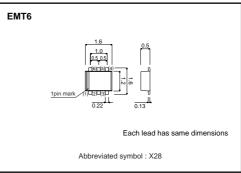
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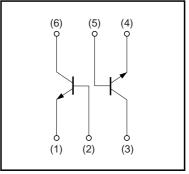
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## •External dimensions (Unit : mm)



## Inner circuit





pF V<sub>CB</sub>=10V, I<sub>E</sub>= 0A, f=1MHz

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