

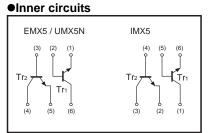
# High transition frequency (dual transistors)

EMX5 / UMX5N / IMX5

#### Features

- 1) Two 2SC3838K chips in a EMT or UMT or SMT package.
- 2) High transition frequency. (fT=3.2GHz)
- 3) Low output capacitance. (Cob=0.9pF)

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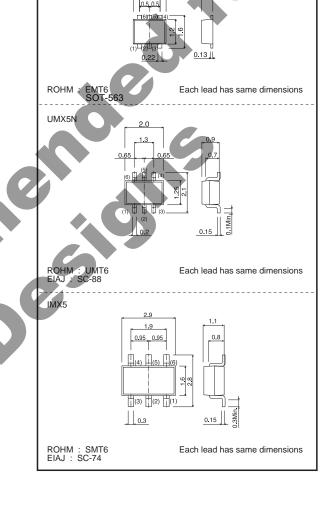


#### •Absolute maximum ratings (Ta=25°C)

•Absolute II	laximum rati	ings (Ta	=25°C)		
Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	20	V	
Collector-emitter voltage		Vceo	11	V	
Emitter-base voltage		Vebo	3	V	
Collector current		lc	50	mA	
Collector power dissipation	EMX5 / UMX5N	- Pc	150(TOTAL)	mW *1	
	IMX5		300(TOTAL)	*2	
Junction temperature		Tj	150	℃ ℃	
Storage temperature		Tstg	-55 to +150	°C	
*1 120mW per element *2 200mW per element					

#### •Package, marking, and packaging specifications

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Туре	EMX5	UMX5N	IMX5	
Package	EMT6	UMT6	SMT6	
Marking	X5	X5	X5	
Code	T2R	TR	T108	
Basic ordering unit (pieces)	8000	3000	3000	



•Dimensions (Unit : mm)

EMX6

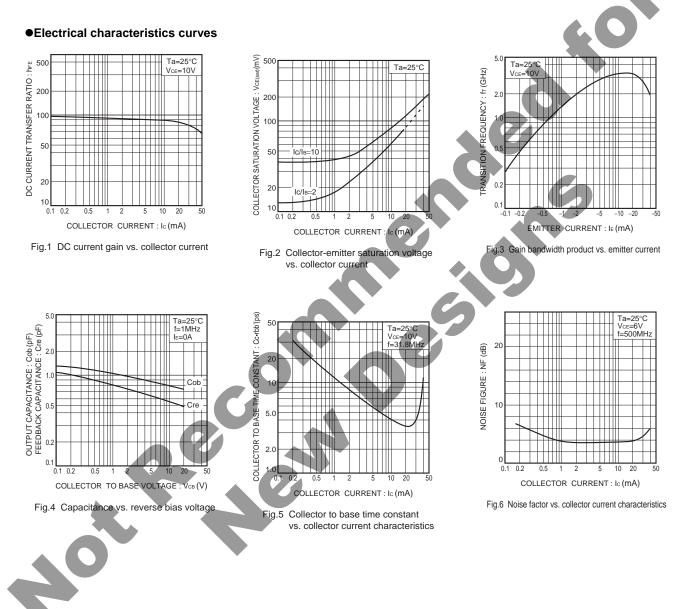
This product might cause chip aging and breakdown under the large electrified environment. Please consider to design ESD protection circuit.

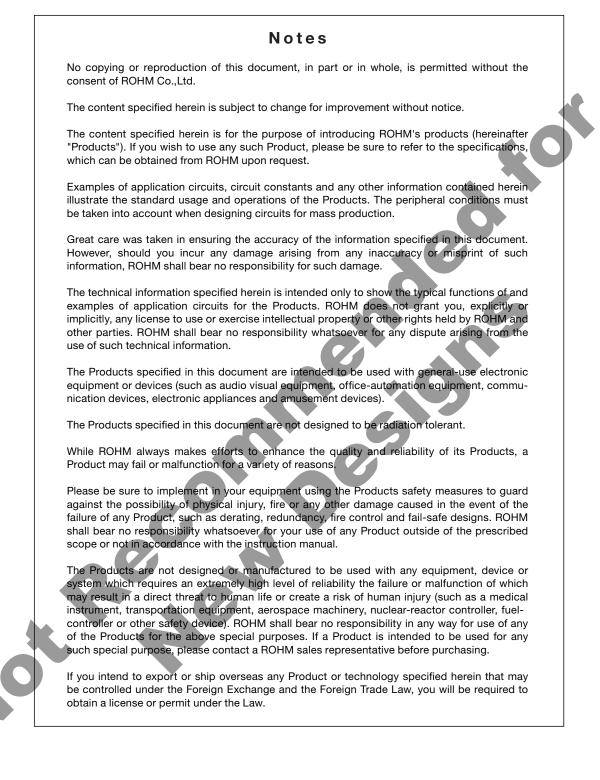
### Data Sheet

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	20	-	-	V	Ic=10μA
Collector-emitter breakdown voltage	BVCEO	11	-	-	V	Ic=1mA
Emitter-base breakdown voltage	ВУево	3	-	-	V	Iε=10μA
Collector cutoff current	Ісво	-	-	0.5	μA	Vcb=10V
Emitter cutoff current	Іево	-	-	0.5	μΑ	Veb=2V
DC current transfer ratio	hfe	56	-	120	-	Vce/lc=10V/5mA
Collector-emitter saturation voltage	VCE(sat)	-	-	0.5	V	Ic/IB=10mA/5mA
Transition frequency	f⊤	1.4	3.2	-	GHz	Vce/Ie=10V/-10mA, f=500MHz *
Output capacitance	Cob	-	0.9	1.55	pF	Vcb/f=10V/1MHz, IE=0A

\*Transition frequency of the device.







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