General purpose transistors (dual transistors) EMX18/UMX18N

Features

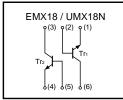
- 1) Two 2SC5585 chips in a EMT or UMT package.
- Mounting possible with EMT3 or UMT3 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- 4) Mounting cost and area can be cut in half.

Structure

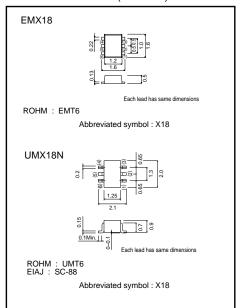
Epitaxial planar type NPN silicon transistor

The following characteristics apply to both Tr1 and Tr2.

Equivalent circuit



•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	Vево	6	V				
Collector current	lc	500	mA				
	Іср	1.0	A				
Power dissipation	Pd	150 (TOTAL)	mW *1				
Junction temperature	Tj	150	°C				
Storage temperature	Tstg	-55 to +150	°C				

*1 120mW per element must not be exceeded.

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Transistors

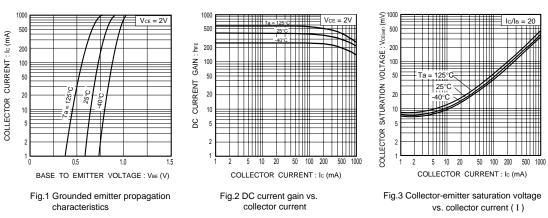
•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВVсво	15	-	-	V	Ic=10µA
Collector-emitter breakdown voltage	BVCEO	12	-	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	6	-	-	V	I _E =10μA
Collector cutoff current	Ісво	-	-	0.1	μΑ	Vcb=15V
Emitter cutoff current	Іево	-	-	0.1	μA	V _{EB} =6V
Collector-emitter saturation voltage	VCE (sat)	-	90	250	mV	Ic/I _B =200mA/10mA
DC current transfer ratio	hfe	270	-	680	-	Vce=2V, Ic=10mA
Transition frequency	f⊤	-	320	-	MHz	Vce=2V, Ie=-10mA, f=100MHz
Output capacitance	Cob	-	7.5	-	PF	Vcb=10V, Ie=0A, f=1MHz

Packaging specifications

	Package	Taping	
	Code	T2R	TN
Туре	Basic ordering unit (pieces)	8000	3000
EMX18		0	—
UMX18N		_	0

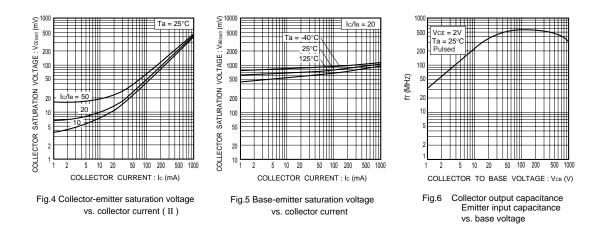
Electrical characteristic curves

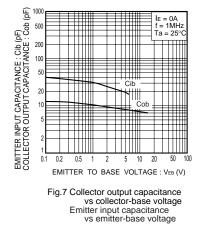


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EMX18 / UMX18N

Transistors





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