



Micro Commercial Components

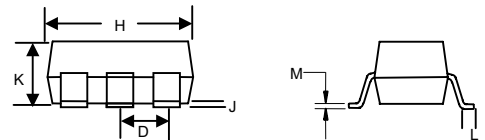
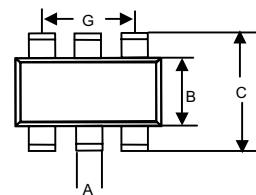


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# UMX1N

## Dual Transistors

### SOT-363



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	

### Features

- Halogen free available upon request by adding suffix "-HF"
- Two 2SC2412K chip in a package
- Mounting possible with SOT-363 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

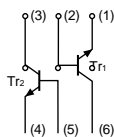
### Absolute maximum ratings @ 25 °C

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	60	V
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
V <sub>EBO</sub>	Emitter-Base Voltage	7	V
I <sub>C</sub>	Collector Current -Continuous	150	mA
P <sub>C</sub>	Collector Power Dissipation	150	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55-150	°C

### Electrical Characteristics @ 25 °C

Symbol	Parameter	Min	Typ	Max	Unit
V <sub>(BR)CBO</sub>	Collector-base Breakdown Voltage (I <sub>C</sub> =50uAdc, I <sub>E</sub> =0)	60	---	---	Vdc
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1mAdc, I <sub>B</sub> =0)	50	---	---	Vdc
V <sub>(BR)EBO</sub>	Emitter-base Breakdown Voltage (I <sub>E</sub> =50uAdc, I <sub>C</sub> =0)	7	---	---	Vdc
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =60Vdc, I <sub>E</sub> =0)	---	---	0.1	uAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =7Vdc, I <sub>C</sub> =0)	---	---	0.1	uAdc
h <sub>FE(1)</sub>	DC Current Gain (I <sub>C</sub> =1.0mAdc, V <sub>CE</sub> =6.0Vdc)	120	---	560	---
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =50mAdc, I <sub>B</sub> =5mAdc)	---	---	0.4	Vdc
f <sub>T</sub>	Transition Frequency (V <sub>CE</sub> =12Vdc, I <sub>C</sub> =2mAdc, f=100MHz)	---	180	---	MHz
C <sub>ob</sub>	Collector output capacitance (V <sub>CB</sub> =12Vdc, I <sub>E</sub> =0, f=1.0MHz)	---	2.0	3.5	pF

### Equivalent circuit



Marking :X1



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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