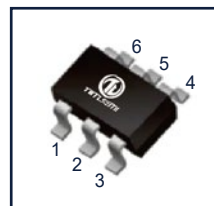
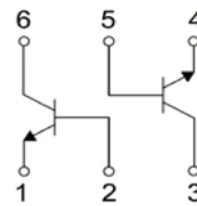


Features

- Two 2SC2412K chips in a SOT-363 package
- Mounting possible with SOT-363 automatic mounting machines
- Transistor elements are independent, eliminating interference
- Mounting cost and area can be cut in half



SOT-363



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Uniat
V_{CB0}	Collector-Base Voltage	60	V
V_{CE0}	Collector-Emitter Voltage	50	V
V_{EB0}	Emitter-Base Voltage	7	V
I_C	Collector Current	0.15	A
P_C	Collector Power Dissipation	150	mW
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

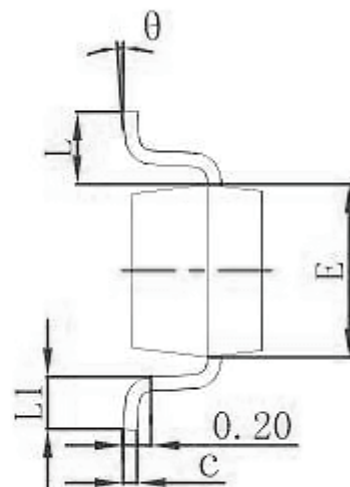
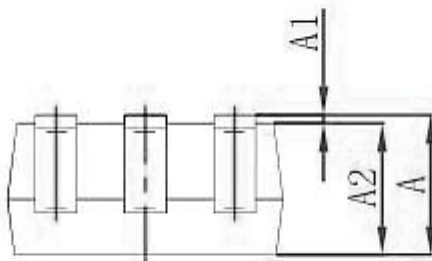
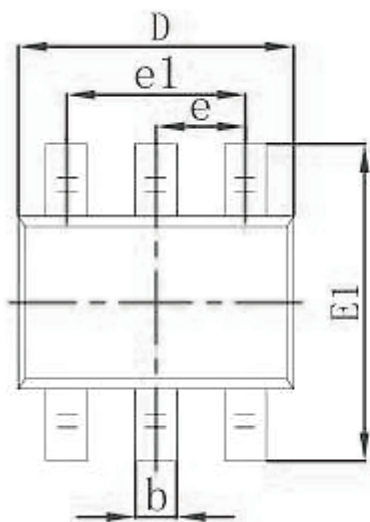
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=50\mu\text{A}, I_E=0$	60			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=1\text{mA}, I_B=0$	50			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=50\mu\text{A}, I_C=0$	7			V
I_{CBO}	Collector cut-off current	$V_{CB}=60\text{V}, I_E=0$			0.1	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=7\text{V}, I_C=0$			0.1	μA
h_{FE}	DC current gain	$V_{CE}=6\text{V}, I_C=1\text{mA}$	120		560	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=50\text{mA}, I_B=5\text{mA}$			0.4	V
f_T	Transition frequency	$V_{CE}=12\text{V}, I_C=2\text{mA}, f=100\text{MHz}$		180		MHz
C_{ob}	Collector output capacitance	$V_{CB}=12\text{V}, I_E=0\text{A}, f=1\text{MHz}$		2.0	3.5	pF

Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
UMX1N	SOT-363	UMX1N ↓ 产品名称 product name	X1	3000



SOT-363 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°