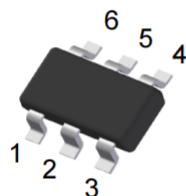


## Features

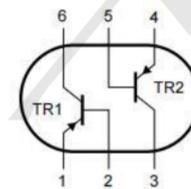
- High current (500mA)
- Replaces two SOT23 packaged transistors on same PCB area.
- Transistor elements are independent, eliminating interference.
- Mounting cost, and area, are reduced by one half.

## Package and Pin Configuration

SOT23-6



Circuit diagram



Marking:T17

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	-60	V
Collector-Emitter Voltage	$V_{CEO}$	-50	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current -Continuous	$I_C$	-0.6	A
Power Dissipation	$P_C$	300 (Total)	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-50 to +150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu\text{A}, I_E=0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu\text{A}, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-40\text{V}, I_B=0$			-100	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-4\text{V}, I_C=0$			-100	nA
DC current gain	$h_{FE}$	$V_{CE}=-3\text{V}, I_C=-100\text{mA}$	120		390	
Collector-emitter saturation voltage	$V_{CESAT}$	$I_C=-500\text{mA}, I_B=-50\text{mA}$			-0.6	V
Base-emitter saturation voltage	$V_{BESAT}$	$I_C=-500\text{mA}, I_B=-20\text{mA}$			-1.2	V
Transition frequency	$f_T$	$V_{CE}=-5\text{V}; I_C=-10\text{mA}; f=100\text{MHz}$		250		MHz



**TECH PUBLIC**

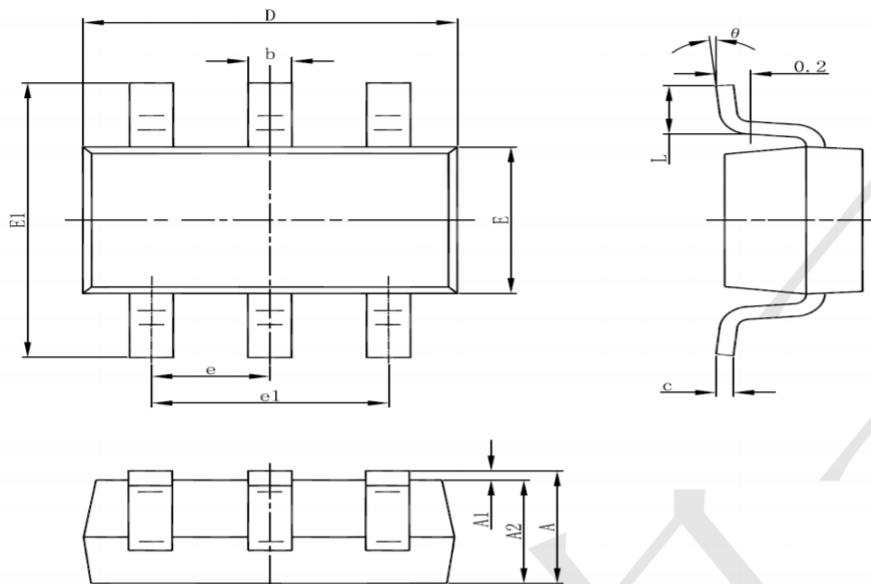
台舟电子

**TPIMT17**

Plastic-Encapsulate TRANSISTOR

[www.sot23.com.tw](http://www.sot23.com.tw)

### SOT23-6 Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.950(BSC)		0.037(BSC)	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°