



## PUMT1

## PNP SILICON TRANSISTOR

### PNP GENERAL PURPOSE DUAL TRANSISTOR

#### DESCRIPTION

Two independently operating PNP transistors.

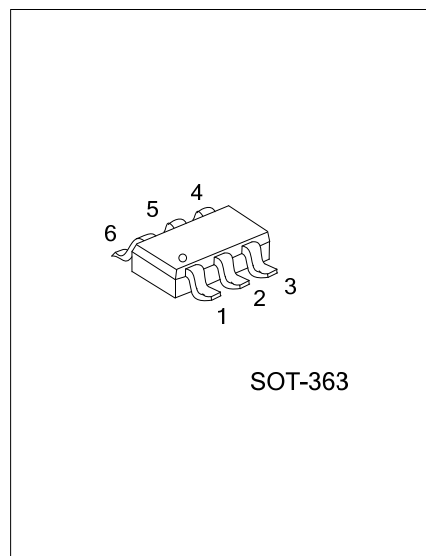
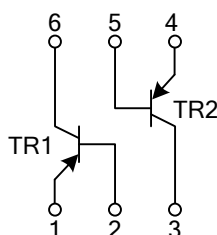
#### FEATURES

- \* Low Current (Max. -100mA)
- \* Low Voltage (Max. -40V)
- \* Reduces Number of Components and Board Space.
- \* Complement to PUMX1.

#### APPLICATIONS

\*General Purpose Switching and Amplification.

#### EQUIVALENT CIRCUIT



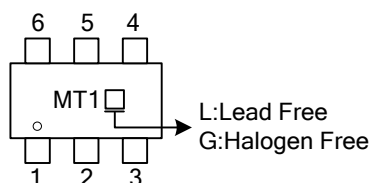
SOT-363

#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen Free		1	2	3	4	5	6	
PUMT1L-AL6-R	PUMT1G-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel

<p>PUMT1L-AL6-R</p> <ul style="list-style-type: none"><li>(1)Packing Type</li><li>(2)Package Type</li><li>(3)Lead Free</li></ul>	<p>(1) R: Tape Reel</p> <p>(2) AL6: SOT-363</p> <p>(3) G: Halogen Free, L: Lead Free</p>
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#### MARKING



■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ )

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-50	V
Collector-Emitter Voltage	$V_{CEO}$	-40	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current (DC)	$I_C$	-100	mA
Peak Collector Current	$I_{CM}$	-200	mA
Peak Base Current	$I_{BM}$	-200	mA
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 ~ +150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ )

PARAMETER	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	$I_{CBO}$	$I_E=0, V_{CB}=-30\text{V}$			-100	nA
		$I_E=0, V_{CB}=-30\text{V}, T_J=150^\circ\text{C}$			-10	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-4\text{V}, I_C=0$			-100	nA
DC Current Gain	$h_{FE}$	$I_C=-1\text{mA}, V_{CE}=-6\text{V}$	120			
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=-50\text{mA}, I_B=-5\text{mA}$ (Note 1)			-200	mV
Collector Capacitance	$C_c$	$I_E=I_C=0, V_{CB}=-12\text{V}, f=1\text{MHz}$			2.2	pF
Transition Frequency	$f_T$	$I_C=-2\text{mA}, V_{CE}=-12\text{V}, f=100\text{MHz}$	100			MHz

Note: 1. Pulse test: Pulse Width $\leq 300\mu\text{s}$ , Duty Cycle $\leq 2.0\%$

2. The following characteristics apply to both TR1 and TR2.

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