



PUMT1

PNP SILICON TRANSISTOR

PNP GENERAL PURPOSE DUAL TRANSISTOR

DESCRIPTION

Two independently operating PNP transistors.

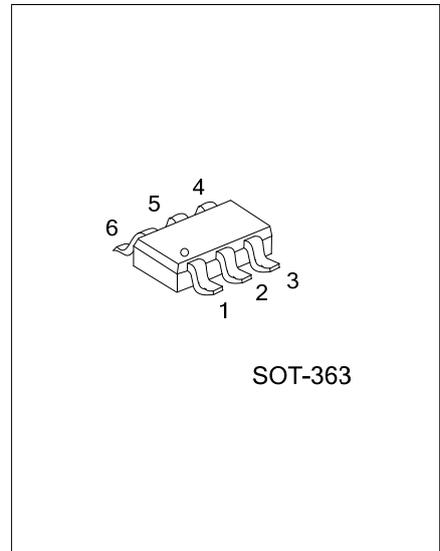
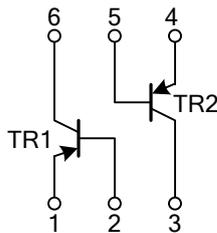
FEATURES

- * 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

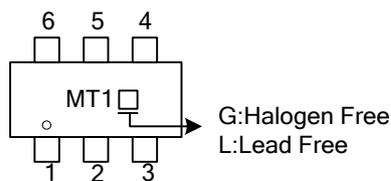


ORDERING INFORMATION

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



The following characteristics apply to both TR1 and TR2.

■ 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	300	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65 ~ +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	μA
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 $\leq 2.0\%$

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