PUMX1 DUAL TRANSISTOR

# NPN GENERAL PURPOSE DUAL TRANSISTOR

#### **■** DESCRIPTION

Two independently operating NPN transistors.

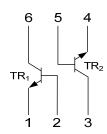
#### **■ FEATURES**

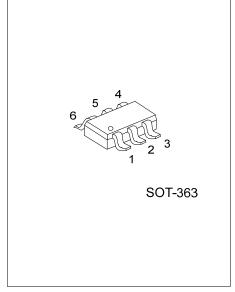
- \* Low current (max.100mA)
- \* Low voltage (max.40V)
- \* Reduces number of components and board space.
- \* Complement to PUMT1.

#### ■ APPLICATIONS

\* General purpose switching and amplification.

#### ■ SYMBOL

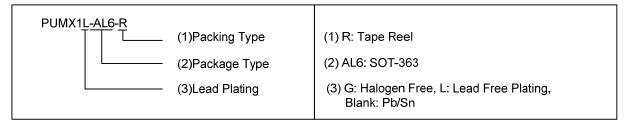




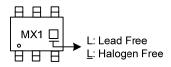
Lead-free: PUMX1L Halogen-free: PUMX1G

## ■ ORDERING INFORMATION

-	Ordering Number			Dookogo	Pin Assignment					Dooking	
	Normal	Lead Free	Halogen-Free	Package	1	2	3	4	5	6	Packing
	PUMX1-AL6-R	PUMX1L-AL6-R	PUMX1G-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel



#### ■ MARKING



#### ■ ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	$V_{CBO}$	50	V
Collector-Emitter Voltage	$V_{CEO}$	40	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current (DC)	Ic	100	mA
Peak Collector Current	I <sub>CM</sub>	200	mA
Peak Base Current	I <sub>BM</sub>	200	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T <sub>STG</sub>	-65~+150	°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<sub>a</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Collector-Emitter Saturation Voltage (Note)	V <sub>CE(SAT)</sub>	I <sub>C</sub> =50mA, I <sub>B</sub> =5mA			200	mV
Collector Cutoff Current	I <sub>CBO</sub>	I <sub>E</sub> =0, V <sub>CB</sub> =30V			100	nA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =4V, I <sub>C</sub> =0			100	nA
DC Current Transfer Ratio	h <sub>FE</sub>	I <sub>C</sub> =1mA, V <sub>CE</sub> =6V	120			
Transition Frequency	f <sub>T</sub>	I <sub>C</sub> =2mA, V <sub>CE</sub> =12V, f=100MHz	100			MHz
Collector capacitance	Cc	I <sub>E</sub> =I <sub>E</sub> =0, V <sub>CB</sub> =12V, f=1MHz			1.5	pF

Note: Pulse test:  $tp \le 300 \mu s$ ,  $\delta \le 0.02$ 

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