PUMX1 DUAL TRANSISTOR

NPN GENERAL PURPOSE DUAL TRANSISTOR

■ DESCRIPTION

Two independently operating NPN transistors.

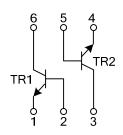
■ FEATURES

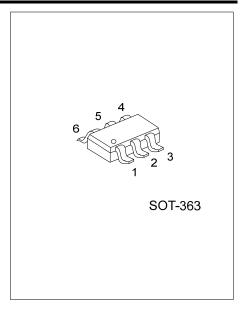
- * Low current (max.100mA)
- * Low voltage (max.40V)
- * Reduces number of components and board space.
- * Complement to PUMT1.

■ APPLICATIONS

* General purpose switching and amplification.

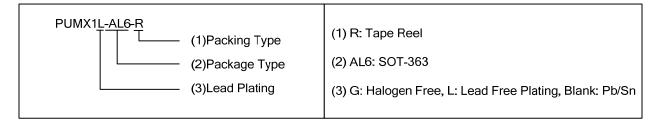
■ SYMBOL



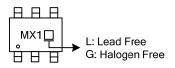


■ ORDERING INFORMATION

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



■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_a=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	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)	Ic	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	°C
Storage Temperature	T _{STG}	-55~+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_a=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Saturation	V _{CE(SAT)} I _C =50mA, I _B =5mA				200	mV
Voltage (Note)	$V_{CE(SAT)}$	IC-30HA, IB-3HA			200	IIIV
Collector Cutoff Current	I_{CBO}	I _E =0, V _{CB} =30V			100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			100	nA
DC Current Transfer Ratio	h_{FE}	I _C =1mA, V _{CE} =6V	120			
Transition Frequency	f_T	I _C =2mA, V _{CE} =12V, f=100MHz	100			MHz
Collector capacitance	Cc	I _E =I _E =0, V _{CB} =12V, f=1MHz			1.5	pF

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



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