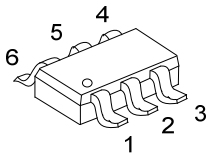
PUMX1

DUAL TRANSISTOR

NPN GENERAL PURPOSE DUAL TRANSISTOR



SOT-363

■ DESCRIPTION

Two independently operating NPN transistors.

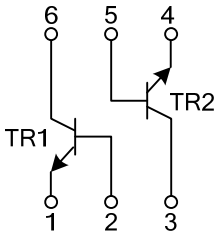
■ FEATURES

* 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

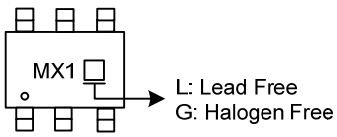
Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen-Free		1	2	3	4	5	6	
PUMX1L-AL6-R	PUMX1G-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel

Note: Pin Assignment: E: Emitter B: Base C: Collector

PUMX1G-AL6-R

(1)Packing Type	(1) R: Tape Reel
(2)Package Type	(2) AL6: SOT-363
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING



■ 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)	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	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

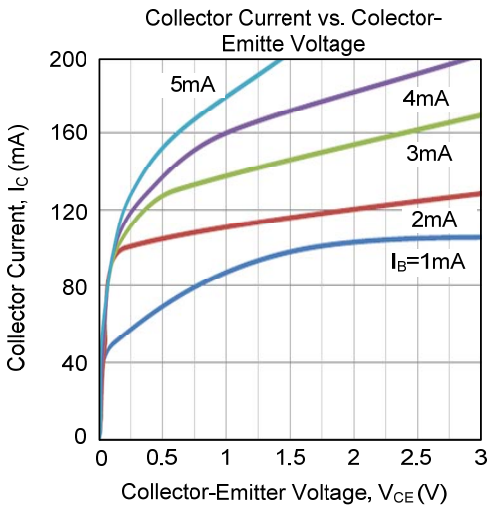
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

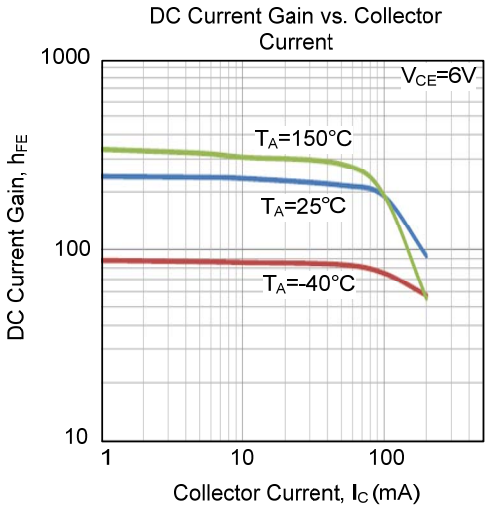
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

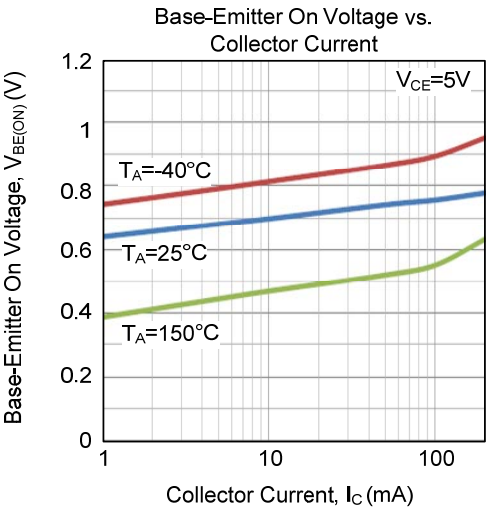
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Saturation Voltage (Note)	$V_{CE(SAT)}$	I_C=50mA, I_B=5mA			200	mV
Collector Cutoff Current	I_{CBO}	I_E=0, V_{CB}=30V			100	nA
Emitter Cutoff Current	I_{EBO}	V_{EB}=4V, I_C=0			100	nA
DC Current Transfer Ratio	h_{FE}	I_C=1mA, V_{CE}=6V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

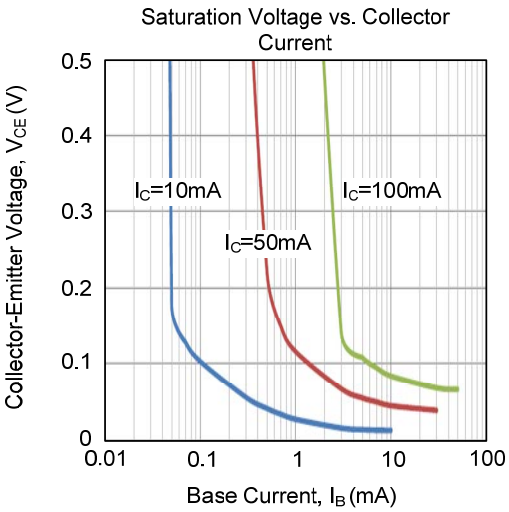
Note: Pulse test: tp≦300μs, δ≦0.02.

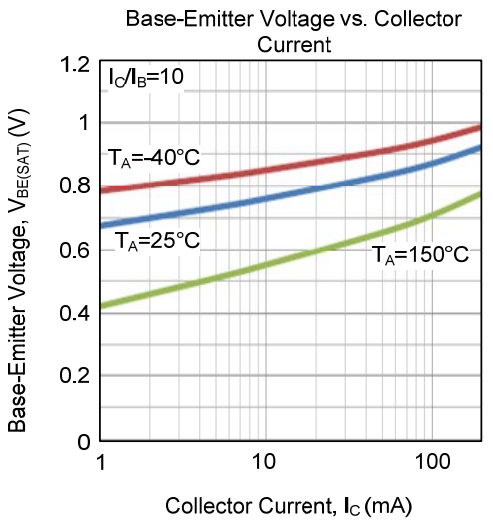
■ TYPICAL CHARACTERISTICS

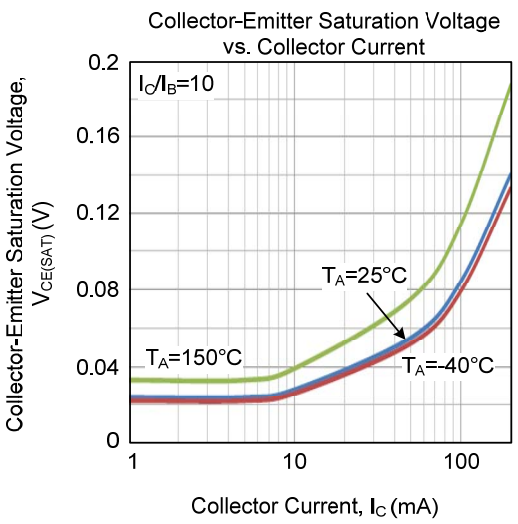












■ TYPICAL CHARACTERISTICS