NPN GENERAL PURPOSE **DUAL TRANSISTOR**

DESCRIPTION

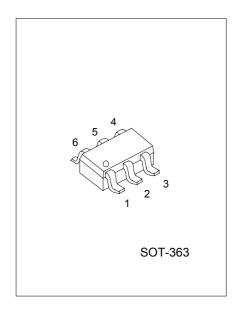
Two independently operating NPN transistors.

FEATURES

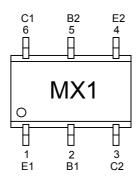
- *Low current (max.100mA)
- *Low voltage (max.40V)
- *Reduces number of components and board space.
- *Complement to PUMT1.

APPLICATIONS

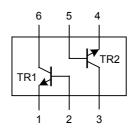
*General purpose switching and amplification.



PIN CONFIGURE/MARKING CODE



EQUIVALENT CIRCUITS



The following characteristics apply to both Tr1 and Tr2

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	Vсво	50	V
Collector-emitter voltage	VCEO	40	V
Emitter-base voltage	VEBO	5	V
Collector current (DC)	lc	100	mA
Peak collector current	Ісм	200	mA
Peak base current	Івм	200	mA
Collector Power Dissipation (total)	Pc	300	mW
Junction temperature	Tj	150	$^{\circ}$
Storage temperature	Tstg	-65~+150	$^{\circ}$

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

PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Collector cut-off current	Ісво	IE=0, VcB=30V		100	nA
	ICBO	IE=0, VcB=30V, Tj=150℃		10	μА
Emitter cut-off current	ІЕВО	V _{EB} =4V, I _C =0		100	nA
DC current gain	hfe	Ic=1mA, VcE=6V	120		
Collector-emitter saturation voltage	VCE(sat)	Ic=50mA, IB=5mA (note 1)		200	mV
Collector capacitance	Сс	IE=ie=0, VcB=12V, f=1MHz		1.5	pF
Transition frequency	fr	Ic=2mA, VcE=12V, f=100MHz	100		MHz

Note:1. Pulse test: tp≤300μs, δ≤0.02

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