

UNISONIC TECHNOLOGIES CO., LTD

UMT1N

Preliminary

DUAL TRANSISTOR

GENERAL PURPOSE TRANSISTOR

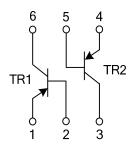
■ DESCRIPTION

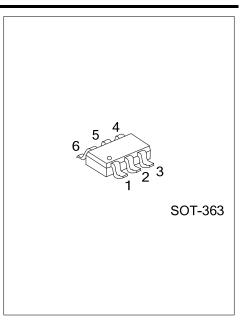
The UTC **UMT1N** is a dual transistor, including two PNP transistors. It uses UTC's advanced technology to provide the customers with high DC current gain, etc.

■ FEATURES

* High DC current gain (hFE>120@VCE=-6V, IC=-1mA)

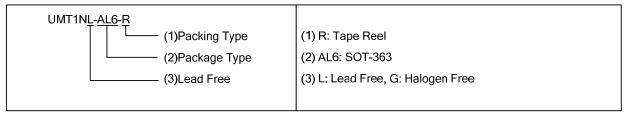
EQUIVALENT CIRCUITS



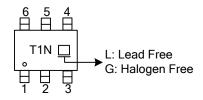


■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment					Dooking	
Lead Free	Halogen Free	Package	1	2	3	4	5	6	Packing
UMT1NL-AL6-R	UMT1NG-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel



MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	Ic	-0.15	A (DC)
Collector Power Dissipation	Pc	0.15	W
Junction Temperature	TJ	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)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-50μA	-60			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-1mA	-50			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =-50μA	-6			V
Collector CutOff Current	I _{CBO}	V _{CB} =-60V			-0.1	μΑ
Emitter CutOff Current	I _{EBO}	V _{EB} =-6V			-0.1	μΑ
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C /I _B =-50mA/-5mA			-0.5	V
DC Current Transfer Ratio	h _{FE}	V _{CE} =-6V, I _C =-1mA	120		560	
Transition Frequency	f⊤	V _{CE} =-12V, I _E =2mA, f=100MHz		140		MHz
Output Capacitance	Cob	V _{CB} =-12V, I _E =0A, f=1MHz		4	5	pF

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