UNISONIC TECHNOLOGIES CO.,LTD

TIP32C

PNP EXPITAXIAL PLANAR TRANSISTOR

TO-220

TO-126

TO-126S

TO-252

■ DESCRIPTION

The UTC **TIP32C** is a PNP epitaxial planar transistor, designed for using in general purpose amplifier and switching applications.

■ FEATURES

* Complement to TIP31C

■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
TIP32CL-TA3-T	TIP32CG-TA3-T	TO-220	B	C	E	Tube
TIP32CL-T60-K	TIP32CG-T60-K	TO-126	B	C	E	Bulk
TIP32CL-T60-A-K	TIP32CG-T60-A-K	TO-126	E	C	B	Bulk
TIP32CL-T6S-K	TIP32CG-T6S-K	TO-126S	B	C	E	Bulk
TIP32CL-TN3-R	TIP32CG-TN3-R	TO-252	B	C	E	Tape Reel

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

TIP32CL-T60-A-K

(1)Packing Type
(2)Pin Assignment
(3)Package Type
(4)Green Package

(1) T: Tube, B: Bulk, R: Tape Reel
(2) Refer to Pin Assignment
(3) TA3: TO-220, T60: TO-126, T6S: TO-126S
    TN3: TO-252
(4) L: Lead Free, G: Halogen Free and Lead Free

■ MARKING

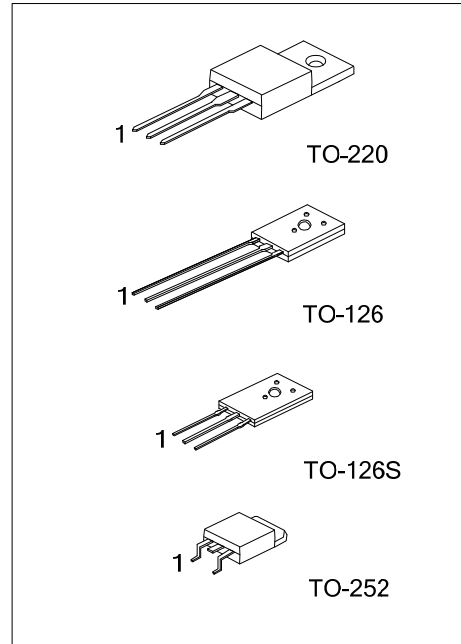| TO-220 / TO-252	TO-126 / TO-126S
U T C TIP32C □ □□□□□□ Lot Code ← L: Lead Free G: Halogen Free Data Code 1	UTC □□□□ → Data Code TIP32C □ L: Lead Free G: Halogen Free 1

TIP32C

PNP SILICON TRANSISTOR

■ **ABSOLUATE MAXIUM RATINGS** (T_A=25°C, unless otherwise specified)

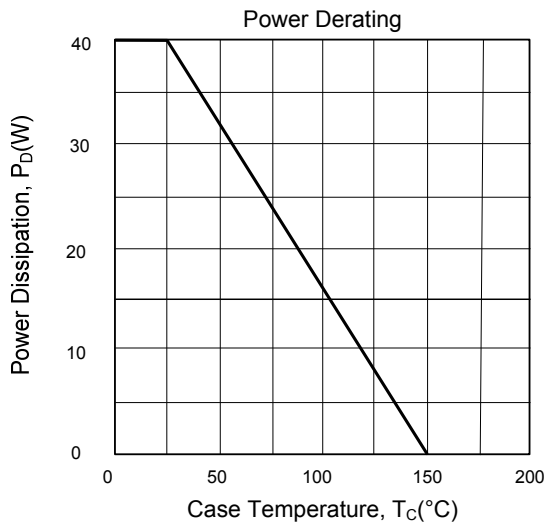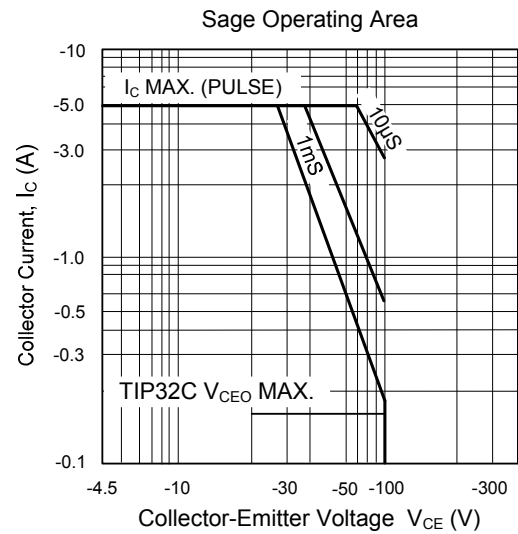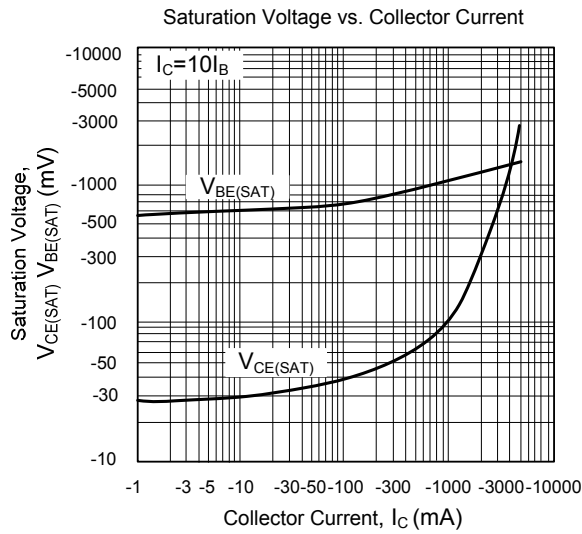| PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-100	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-3	A
	PULSE	I_{CM}	-5	A
Base Current		I_B	-1	A
Power Dissipation	TO-220	P_D	2	W
	TO-126S/TO-126		1.25	W
	TO-252		1	W
Junction Temperature		T_J	+150	°C
Storage Temperature		T_{STG}	-40 ~ +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 Sustaining Voltage (Note)	BV_{CEO}	I_C=-30mA,I_B=0	-100			V
Collector Cutoff Current	I_{CES}	V_{CE}=-100V, V_{BE}=0			-200	μA
Collector Cutoff Current	I_{CEO}	V_{CE}=-60V, I_B=0			-0.3	mA
Emitter Cutoff current	I_{EBO}	V_{BE}=-5V, I_C=0			-1	mA
Collector-Emitter Saturation Voltage (Note)	$V_{CE(SAT)}$	I_C=-3A, I_B=-375mA			-1.2	V
Base-Emitter On Voltage*	$V_{BE(ON)}$	I_C=-3A, V_{CE}=-4A			-1.8	V
DC Current Gain (Note)	h_{FE}	I_C=-1A, V_{CE}=-4V	25			
		I_C=-3A, V_{CE}=-4V	10		50	
Current Gain Bandwidth Product	f_T	I_C=-0.5A,V_{CE}=-10V, f=1MHz	3			MHz

Note: Pulse Test: P_W≤300μs, Duty Cyle≤2%.

■ **TYPICAL CHARACTERICS**

Saturation Voltage vs. Collector Current

Sage Operating Area

Power Derating

DC Current Gain

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