TIP110A **Preliminary**

PNP SILICON TRANSISTOR

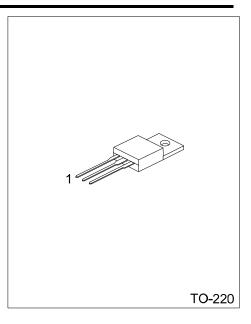
LOW SATURATION VOLTAGE PNP DARLINGTON **TRANSISTOR**

DESCRIPTION

The UTC TIP110A is designed for using in general purpose amplifier and switching applications.

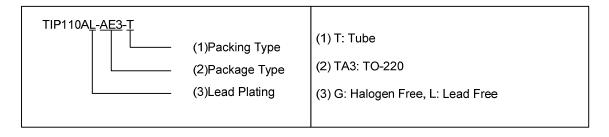
FEATURES

- * Low $V_{CE(SAT)}$
- * High Current Gain



ORDERING INFORMATION

Ordering Number		Dooksass	Pin Assignment			Doolsing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TIP110AL-TA3-T	TIP110AG-TA3-T	TO-220	В	С	Е	Tube	



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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V_{CBO}	-45	V
Collector to Emitter Voltage	V_{CEO}	-35	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-10	Α
Power Dissipation	P _D	65	W
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** (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_CBO	I _C =-10mA, I _E =0A	-45			
Collector-Emitter Breakdown Voltage	BV_CEO	I _C =-1mA, I _B =0A	-35			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E =-10mA, I_C =0A	-5			
Collect Cut-off Current	I_{CBO}	V _{CB} =-45V, I _E =0A			-4	μΑ
Collector-Emitter Cut-Off Current	I_{CEO}	V _{CE} =-35V, I _B =0A			-10	μΑ
Emitter Cut-off Current	I _{EBO}	V_{BE} =-5V, I_{C} =0A			-2.0	mA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I _C =-10A, I _B =-0.1A			-2.0	V
Base-Emitter On Voltage	$V_{BE(ON)}$	V _{CE} =-2.0V ,I _C =-5mA			-2.0	V
DC Current Gain	h _{FE1}	V _{CE} =-2.0V ,I _C =-0.5A	2000		60000	
DC Current Gain	h _{FE2}	V _{CE} =-2.0V ,I _C =-10A	1000		60000	

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