UTC UNISONIC TECHNOLOGIES CO., LTD

UB1580

PNP SILICON TRANSISTOR

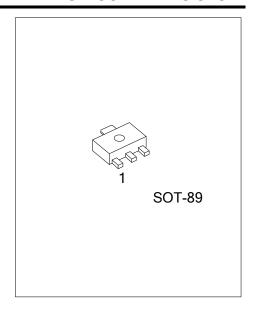
PNP EPITAXIAL PLANAR **TRANSISTOR**

DESCRIPTION

The UTC UB1580 is a PNP Darlington transistor, designed for use in general purpose amplifier and low speed switching application..

FEATURES

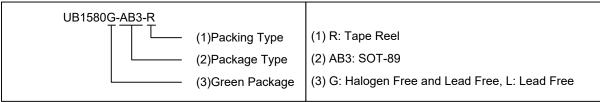
- * Collector-Emitter Voltage: V_{CEO} = -150V
- * Collector Dissipation: Pc(MAX) = 600mW
- * Low Collector-Emitter Saturation Voltage



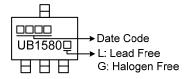
ORDERING INFORMATION

Ordering Number		Deeleene	Pin Assignment			Da akin n	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UB1580L-AB3-R	UB1580G-AB3-R	SOT-89	В	С	Е	Tape Reel	

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



MARKING



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■ **ABSOLUTE MAXIMUM RATING** (T_A=25°C unless otherwise specified)

PARAMETER		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V _{CBO}	-150	V	
Collector-Emitter Voltage		V _{CEO}	-150	V	
Emitter-Base Voltage		V_{EBO}	-5	V	
Calle store Commont	DC	Ic	-4	Α	
Collector Current	Pulse	I _{CP}	-6	Α	
Collector Dissipation (Ta=25°C)		Pc	600	mW	
Junction Temperature		T_J	+150	°C	
Storage Temperature		T _{STG}	-55 ~ + 150	°C	

Notes: 1. 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.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT	
Junction to Ambient	θ_{JA}	208	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	ВУсво	I _C =-100μA, I _E =0	-150			V
Collector-Emitter Breakdown Voltage	BVceo	I _C =-1mA, I _B =0	-150			V
Collector Cut-off Current	Ісво	V _{CB} =-150V, I _E =0			-10	μA
Collector Cut-off Current	Iceo	V _{CB} =-150V, I _B =0			-10	μΑ
Emitter Cut-off Current	I _{EBO}	V _{EB} =-5V, I _C =0			-2	mA
DC Current Gain (Note)	h _{FE}	V _{CE} =-4V, I _C =-1A	1000			
		V _{CE} =-4V, I _C =-2A	500			
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-2A, I _B =-2mA			-2	V
Base-Emitter Saturation Voltage	$V_{BE(ON)}$	V _{CE} =-4V, I _C =-2A			-2.8	V
		V _{CE} =-4V, I _C =-1A			-2	V
		V _{CE} =-4V, I _C =-4A			-3	V
Output Capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz			200	pF

Note: Pulse test: Pulse Width \leq 380µs, Duty Cycle \leq 2%.

^{2.} Pulse test: Pulse Width \leq 350 μ s, Duty Cycle \leq 2%...

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