UP1496

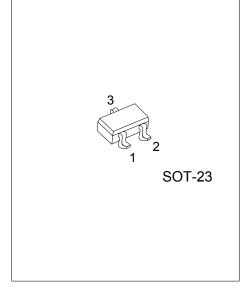
Preliminary

PNP SILICON TRANSISTOR

PNP SILICON PLANAR HIGH VOLTAGE TRANSISTOR

■ DESCRIPTION

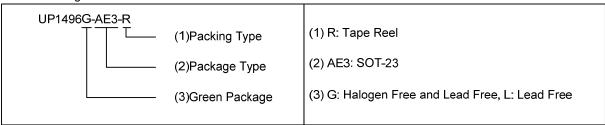
The UTC **UP1496** are series of PNP silicon planar transistors which have gain of 500 at I_C =100mA. It can be used in such applications like battery powered circuits and darlington replacements.



ORDERING INFORMATION

Ordering Number		Dooksass	Pin Assignment			Dealine	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UP1496L-AE3-R	UP1496G-AE3-R	SOT-23	В	Е	С	Tape Reel	

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



■ MARKING



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-220	V
Collector-Emitter Voltage	V_{CEO}	-200	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-0.3	Α
Peak Pulse Current	I _{CM}	-1	Α
Base Current	I _B	-200	mA
Collector Dissipation (T _a =25°C)	Pc	500	mW
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** (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_CBO	I _C =-100 μA	-220			V
Collector-Emitter Breakdown Voltage	BV_CEO	I _C =-10 mA (Note)	-200			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =-100 μA	-5			V
Collector Cutoff Current	I_{CBO}	V _{CB} =-200 V			-100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-4 V			-100	nA
Collector -Emitter Cut-off Current	I _{CES}	V _{CES} =-200 V			-100	nA
DC Current Transfer Ratio	h _{FE}	V_{CE} =-10V , I_{C} =-1mA	100			
		V _{CE} =-10V , I _C =-100mA (Note)	100			
		V _{CE} =-10V , I _C =-250mA (Note)	85		300	
		V _{CE} =-10V , I _C =-400mA (Note)	35			
Base-Emitter Turn-On Voltage	$V_{BE(ON)}$	V _{CE} =-10V , I _C =-250 mA (Note)			-0.9	V
Callegates Fraittes Caturation Valtage	V _{CE(SAT)}	I _C =-100mA, I _B =-10mA			-0.2	V
Collector-Emitter Saturation Voltage		I _C =-250mA, I _B =-25mA (Note)			-0.35	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	I _C =-250mA, I _B =-25mA (Note)			-1.0	V
Transition Frequency	f_T	V_{CE} =-10V , I_{C} =-50mA, f=100MHz	150			MHz
Output Capacitance	Сов	V _{CB} =-10V, f=1MHz			10	pF

Note: Measured under pulse conditions. Pulse width=300 μ s. Duty cycle \leq 2%.

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