UNISONIC TECHNOLOGIES CO., LTD

2SC4466

Preliminary

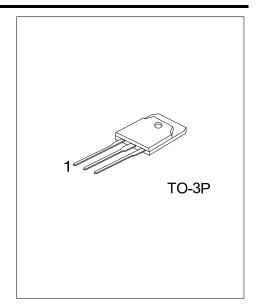
NPN EPITAXIAL SILICON TRANSISTOR

SILICON NPN TRIPLE **DIFFUSED PLANAR TRANSISTOR**

DESCRIPTION

The UTC 2SC4466 is a silicon NPN triple diffused planar transistor, it uses UTC's advanced technology to provide the customers with high DC current gain and high collector-base breakdown voltage, etc.

The UTC 2SC4466 is suitable for audio and general purpose, etc.



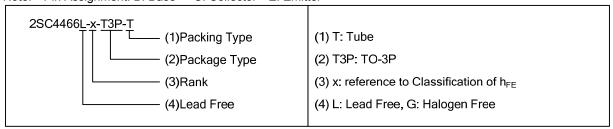
FEATURES

- * High DC current gain
- * High collector-base breakdown voltage

ORDERING INFORMATION

Ordering	Ordering Number Pin As		Assignn	nent	Darlina		
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC4466L-x-T3P-T	2SC4466G-x-T3P-T	TO-3P	В	С	Е	Tube	

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



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	120	٧
Collector-Emitter Voltage	V_{CEO}	80	٧
Emitter-Base Voltage	V_{EBO}	6	٧
Collector Current	I _C	6	Α
Base Current	Ι _Β	3	Α
Collector Power Dissipation (T _C =25°C)	Pc	60	W
Junction Temperature	TJ	150	Ô
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.

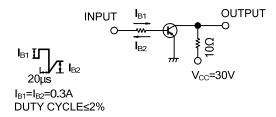
■ ELECTRICAL CHARACTERISTICS (T_A =25°C)

PARAMETER		SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Collector Cut-Off Current		I _{CBO}	V _{CB} =120V			10	μΑ
Emitter Cut-Off Current		I _{EBO}	V _{EB} =6V			10	μΑ
Collector-Emitter Breakdown Voltage		BV _{CEO}	I _C =50mA				V
DC Current Gain		h _{FE}	V _{CE} =4V, I _C =2A			180	
Collector-Emitter Saturation Voltage		$V_{CE(SAT)}$	I _C =2A, I _B =0.2A			1.5	V
Current Gain Bandwidth Product		f_T	V _{CE} =12V, I _E =-0.5A		20		MHz
Output Capacitance		Cob	V _{CB} =10V, f=1MHz		110		pF
Switching time	Turn-on time	t _{ON}	V _{CC} =30V, R _L =10Ω, I _C =3A, I _{B1} =0.3A I _{B2} =0.3A		0.16		μS
	Storage time	ts			2.60		μS
	Fall time	t _F			0.34		μS

■ CLASSIFICATION OF h_{FE}

RANK	0	Р	Y
RANGE	50~100	70~140	90~180

■ TEST CIRCUIT



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