UNISONIC TECHNOLOGIES CO., LTD

MP2510

Preliminary

PNP EPITAXIAL SILICON TRANSISTOR

PNP TRANSISTOR

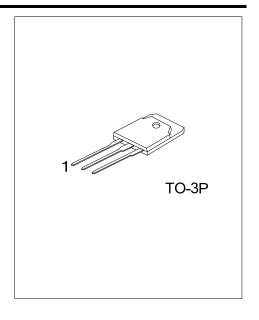
■ DESCRIPTION

The UTC **MP2510** is a PNP transistor, it uses UTC's advanced technology to provide the customers with high DC current gain and high collector-emitter breakdown voltage, etc.

The UTC $\ensuremath{\text{MP2510}}$ is suitable for automobile power amplifiers, etc.

■ FEATURES

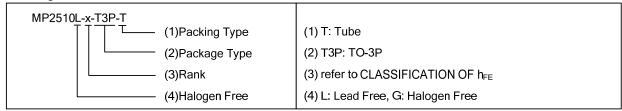
- * High DC current gain (Min = 40@V_{CE} = 4V, I_C = 12A)
- * High collector-emitter breakdown voltage (Min = -100V)



■ ORDERING INFORMATION

Ordering Number		Dardina	Pin Assignment			Da alsisas	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MP2510L-x-T3P-T	MP2510G-x-T3P-T	TO-3P	В	С	Е	Tube	

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



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-100	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I _C	-25	Α
Base Current	I _B	-5	Α
Collector Power Dissipation (T _C =25°C)	Pc	125	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 (T_A =25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	V _{CB} =100V			-10	μΑ
Emitter Cut-Off Current	I _{EBO}	V _{EB} =6V			-10	μΑ
Collector-Emitter Voltage	V _{(BR)CEO}	I _C =50mA	-100			V
DC Current Gain (Note 1)	h _{FE}	V _{CE} =4V, I _C =12A	40		120	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =12A, I _B =1.2A			-1.5	V
Base- Emitter Saturation Voltage	V _{BE(ON)}	V _{CE} =4V, I _C =12A			-1.8	V
Cut-Off Frequency	f _T	V _{CE} =12V, I _E =-1A		20		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0A, f=1MHz		200		pF

■ CLASSIFICATION OF h_{FE}

RANK	R	0
h _{FE1}	40~80	60~120



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