

UNISONIC TECHNOLOGIES CO., LTD

UN2488

Preliminary

NPN EPITAXIAL SILICON TRANSISTOR

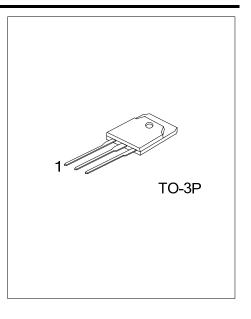
NPN SLICON POWER TRANSISTOR

■ DESCRIPTION

The UTC **UN2488** is an NPN epitaxial trans istor, it uses U TC's advanced tec hnology to provide the customers with high collector-emitter breakdown voltage and ultra-high DC current gain, etc.

■ FEATURES

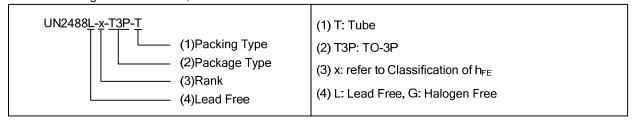
- * High collector-emitter breakdown voltage
- * Ultra-high DC current gain



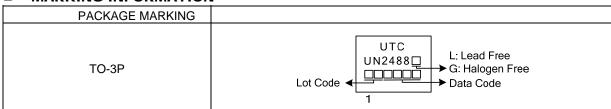
■ ORDERING INFORMATION

Ordering	Number	Dookogo	Pin Assignment		Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing		
UN2488L-x-T3P-T	UN2488G-x-T3P-T	TO-3P	В	С	Е	Tube		

Note: Pin Assignment: A: Anode, K: Cathode



■ MARKING INFORMATION



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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	$V_{\sf CEO}$	150	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	Ic	10	Α
Base Current	I _B	1	Α
Collector Power Dissipation (T _C =25°C)	Pc	150	W
Junction Temperature	TJ	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 Cut-Off Current	I _{CBO} V	_{CB} =160V, I _E =0A			100	μΑ
Emitter Cut-Off Current	I _{EBO} V	$_{EB}$ =5V, I_{C} =0A			100	μΑ
Collector-Emitter Voltage	V _{CEO} I	_C =30mA 150				V
DC Current Gain	h _{FE}	V _{CE} =4V, I _C =7A 500	0		30000	
Collector-Emitter Saturation Voltage	V _{CE(sat)} I	_C =7A, I _B =7mA			2.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)} I	_C =7A, I _B =7mA			3.0	V
Current Gain Bandwidth Product	f _T V	_{CE} =12V, I _E =2A	5	5		MHz
Output Capacitance	C _{ob} V	_{CB} =10V, f=1MHz, I _E =0A	95			рF

CLASSIFICATION OF h_{FE}

RANK	0	Р	Υ
RANGE	5000 ~ 12000	6500 ~ 20000	15000 ~ 30000

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