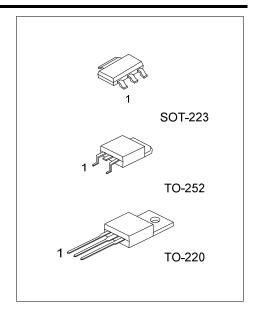
HJ44H11

NPN SILICON TRANSISTOR

NPN EPITAXIAL PLANAR **TRANSISTOR**

DESCRIPTION

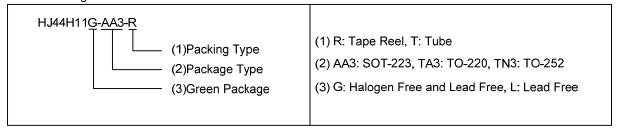
The UTC HJ44H11 is designed for such applications as: series, shunt and switching regulators; output and driver stages of amplifiers operating at frequencies from DC to greater than 1MHz; low and high frequency inverters/converters; and many others.



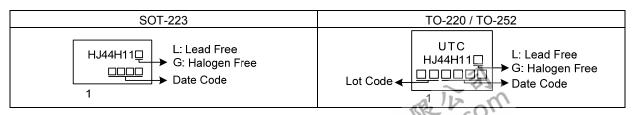
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
HJ44H11L-AA3-R	HJ44H11G-AA3-R	SOT-223	В	С	E	Tape Reel	
HJ44H11L-TA3-T	HJ44H11G-TA3-T	TO-220	В	С	Е	Tube	
HJ44H11L-TN3-R	HJ44H11G-TN3-R	TO-252	В	С	Е	Tape Reel	
HJ44H11L-TN3-T	HJ44H11G-TN3-T	TO-252	В	С	E	Tube	

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



MARKING



www.unisonic.com.tw 1 of 4 QW-R209-024.E

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector- Emitter Voltage		V_{CEO}	80	V	
Collector-Emitter Voltage		V _{CES}	80	V	
Emitter-Base Voltage		V_{EBO}	5	V	
Collector Current		I _C	8	Α	
Base Current		I _B	5	Α	
	SOT-223		5	W	
Power Dissipation (T _C =25°C)	TO-220	P_{D}	65		
	TO-252		20		
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.

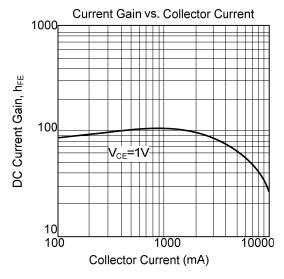
■ ELECTRICAL CHARACTERISTICS (T_A=25°C)

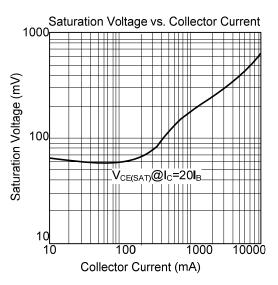
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV _{CEO}	I_C =30mA, I_B =0	80			V
Collector-Emitter Breakdown Voltage	BV _{CES}	I _C =1mA, I _B =0	80			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =1mA, I _C =0	5			V
Collector Cut-Off Current	I _{CES}	V _{CB} =80V, V _{EB} =0			10	uA
Emitter Cut-off Current	I _{EBO}	V_{EB} =5 V , I_{C} =0			50	uA
Collector-Emitter Saturation Voltage(Note)	$V_{CE(SAT)}$	I _C =8A, I _B =0.4A			1	V
Base-Emitter Saturation Voltage(Note)	$V_{BE(SAT)}$	I _C =8A, I _B =0.8A			1.5	V
DC Current Cain (Note)	h _{FE1}	V _{CE} =1V, I _C =2A	60		500	
DC Current Gain (Note)	h _{FE2}	V _{CE} =1V, I _C =4A	40		200	
Output Capacitance	C _{OB}	V _{CB} =10V		130		pF
Transition Frequency	f _T	V _{CE} =10V, I _C =500mA, f=20MHz		50		MHz

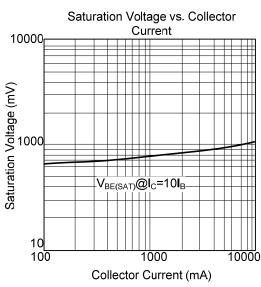
Note: Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%.

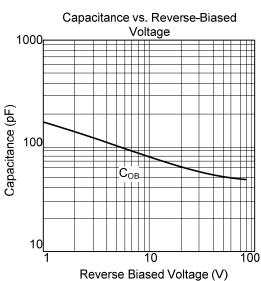


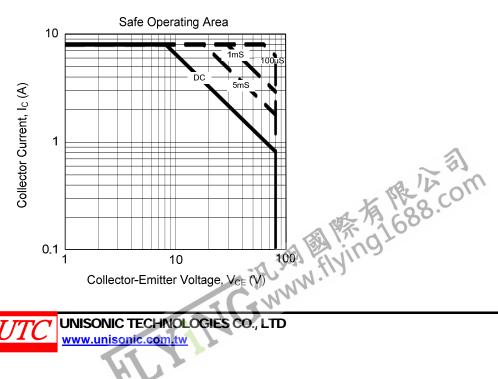
TYPICAL CHARACTERISTICS











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