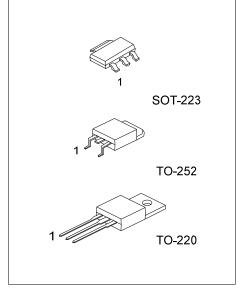
HJ44H11

NPN SILICON TRANSISTOR

NPN EPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

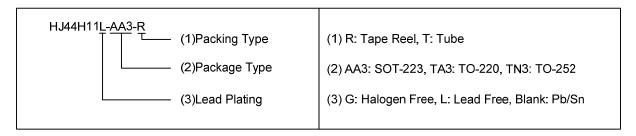
The UTC **HJ44H11** is designed for such applications as: series, shunt and switching regulators; output and driver stages of amplifiers operating at frequencies from DC to greater than 1MHz; low and high frequency inverters/converters; and many others.



Lead-free: HJ44H11L Halogen-free: HJ44H11G

ORDERING INFORMATION

Ordering Number			Dookogo	Pin Assignment			Dooking	
Normal	Lead Free	Halogen Free	Package	1	2	3	Packing	
HJ44H11-AA3-R	HJ44H11L-AA3-R	HJ44H11G-AA3-R	SOT-223	В	С	Е	Tape Reel	
HJ44H11-TA3-T	HJ44H11L-TA3-T	HJ44H11G-TA3-T	TO-220	В	С	Е	Tube	
HJ44H11-TN3-R	HJ44H11L-TN3-R	HJ44H11G-TN3-R	TO-252	В	С	Е	Tape Reel	



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector- Emitter Voltage		V_{CEO}	80	V	
Collector-Emitter Voltage		V_{CES}	80	٧	
Emitter-Base Voltage		V_{EBO}	5	٧	
Collector Current		Ic	8	Α	
Base Current		I_{B}	5	Α	
	SOT-223	P_D	5	W	
Total Power Dissipation (T _C =25°ℂ)	TO-220		65		
(0 1 0)	TO-252		20	<u>] </u>	
Junction Temperature		TJ	+150	$^{\circ}$	
Junction Temperature		T_J	+150	$^{\circ}\!\mathbb{C}$	
Storage Temperature		T_{STG}	-55~+150	$^{\circ}\!\mathbb{C}$	

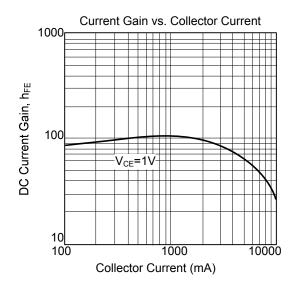
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

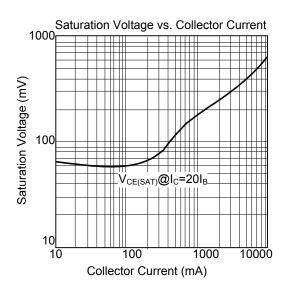
■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

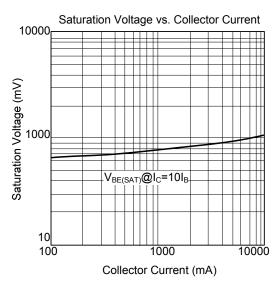
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_CEO	I_C =30mA, I_B =0	80			V
Collector-Emitter Breakdown Voltage	BV _{CES}	I _C =1mA, I _B =0	80			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E =1mA, I_C =0	5			V
Collector Cut-Off Current	I _{CES}	V_{CB} =80V, 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} =1 V , I_{C} =2 A	60			
DC Current Gain (Note)	h _{FE2}	V_{CE} =1 V , I_{C} =4 A	40			
Output Capacitance	C _{ob}	V _{CB} =10V		130		pF
Transition Frequency	f _T	V _{CE} =10V, I _C =500mA, f=20MHz		50		MHz

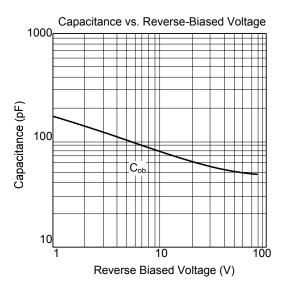
Note: Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

■ TYPICAL CHARACTERISTICS









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