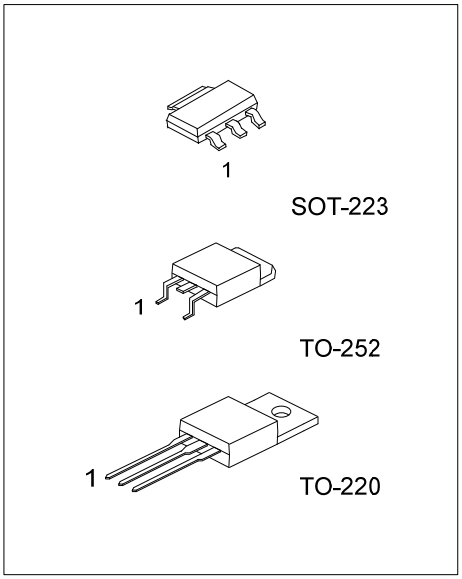
HJ44H11

NPN SILICON TRANSISTOR

NPN EPITAXIAL PLANAR TRANSISTOR



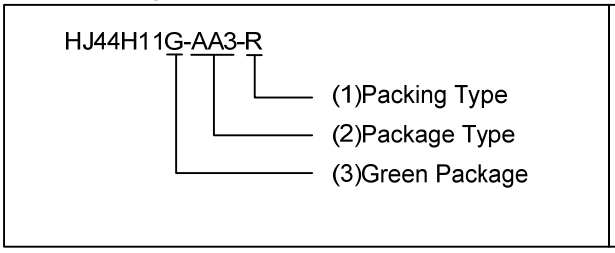
■ DESCRIPTION

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

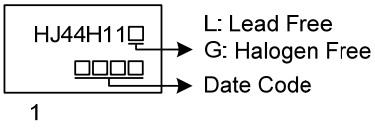
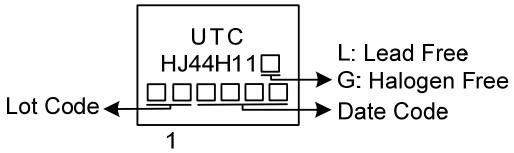
Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
HJ44H11L-AA3-R	HJ44H11G-AA3-R	SOT-223	B	C	E	Tape Reel
HJ44H11L-TA3-T	HJ44H11G-TA3-T	TO-220	B	C	E	Tube
HJ44H11L-TN3-R	HJ44H11G-TN3-R	TO-252	B	C	E	Tape Reel
HJ44H11L-TN3-T	HJ44H11G-TN3-T	TO-252	B	C	E	Tube

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



(1) R: Tape Reel, T: Tube
(2) AA3: SOT-223, TA3: TO-220, TN3: TO-252
(3) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING

SOT-223	TO-220 / TO-252
	

■ 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	A
Base Current		I_B	5	A
Power Dissipation (T_C=25°C)	SOT-223	P_D	5	W
	TO-220		65	
	TO-252		20	
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.

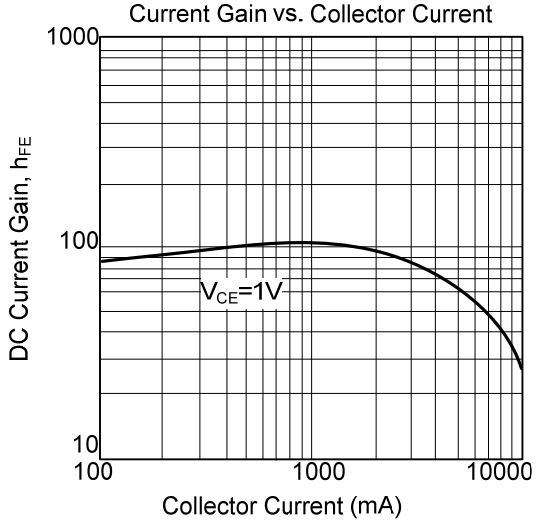
■ ELECTRICAL CHARACTERISTICS (T_A=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-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}=5V, 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 Gain (Note)	h_{FE1}	V_{CE}=1V, I_C=2A	60		500	
	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

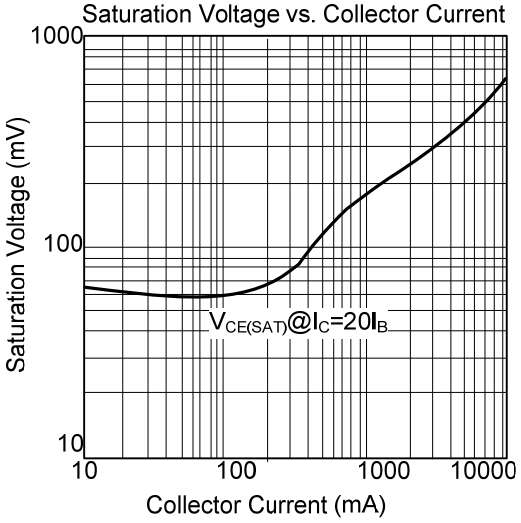
Note: Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%.

■ TYPICAL CHARACTERISTICS

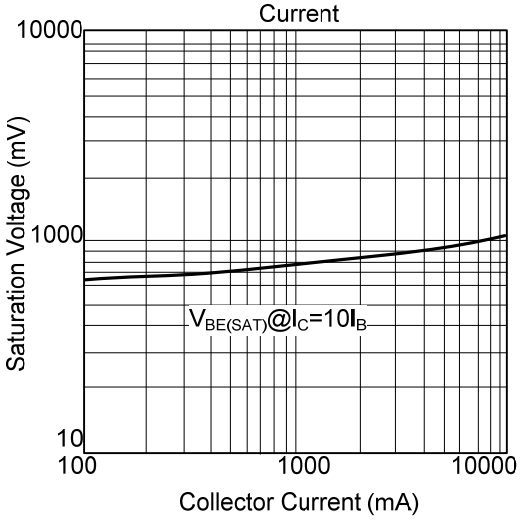
Current Gain vs. Collector Current



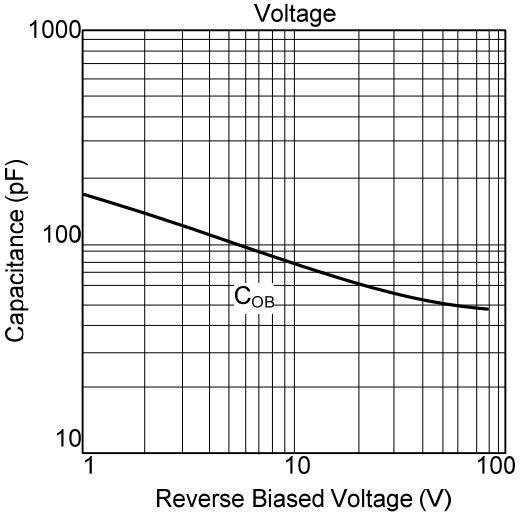
Saturation Voltage vs. Collector Current



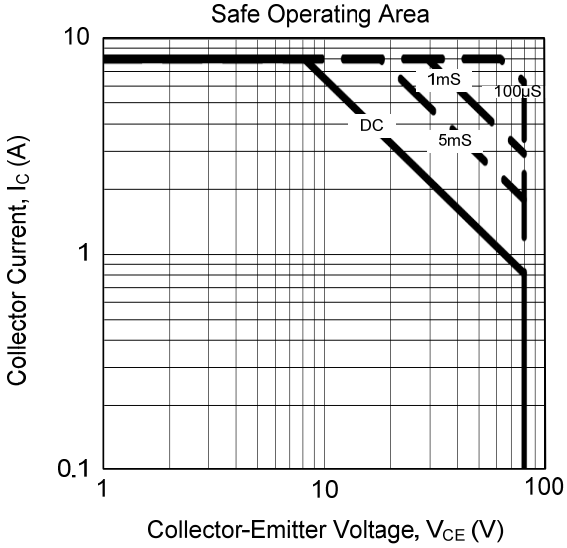
Saturation Voltage vs. Collector Current



Capacitance vs. Reverse-Biased Voltage



Safe Operating Area



单击下面可查看定价，库存，交付和生命周期等信息

>>UTC(友顺)