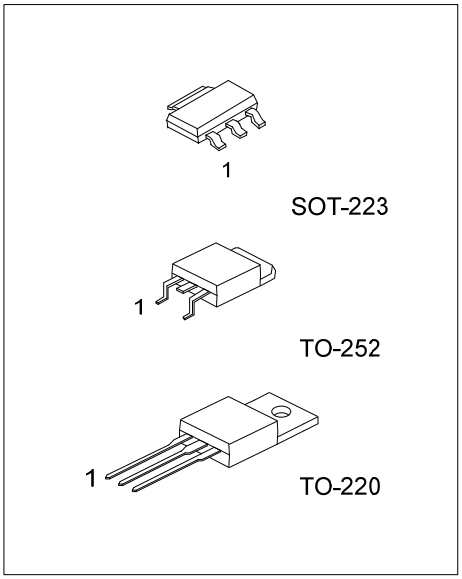
HJ44H11

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

HJ44H11L-AA3-R
(1)Packing Type
(2)Package Type
(3)Lead Free

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

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■ ABSOLUTE MAXIMUM RATINGS (T_A=25℃)

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℃)	SOT-223	P_D	5	W
	TO-220		65	
	TO-252		20	
Junction Temperature		T_J	+150	℃
Storage Temperature		T_{STG}	-55~+150	℃

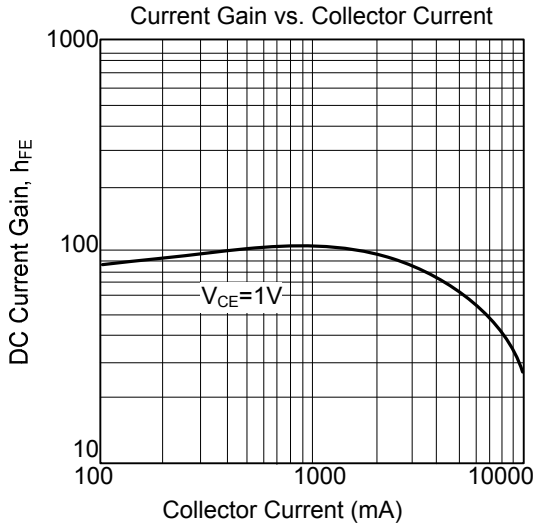
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

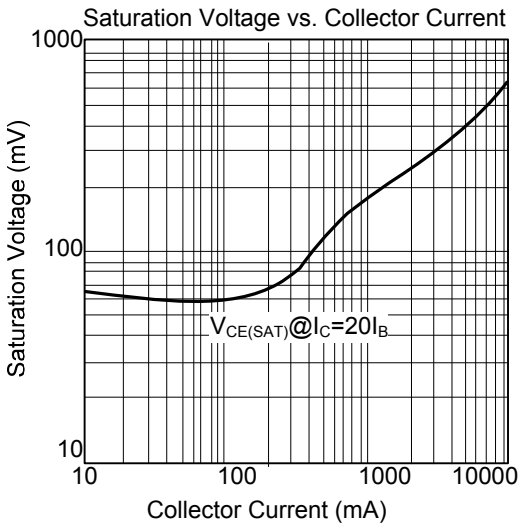
■ ELECTRICAL CHARACTERISTICS (T_A=25℃)

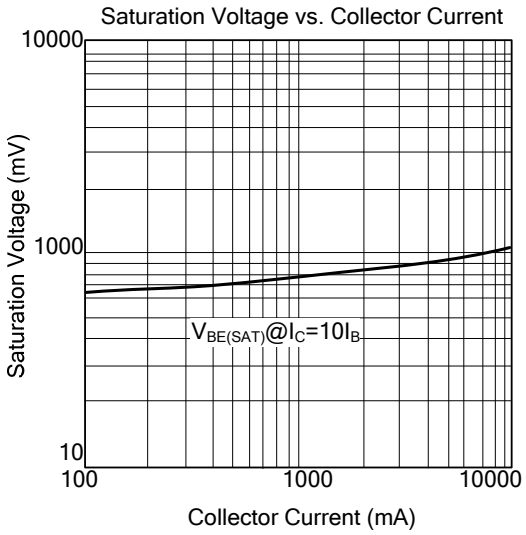
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C=30mA, I_B=0	80			V
Collector-Emitter Breakdown Voltage	BV_{CES}	I_C=1mA, I_B=0	80			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E=1mA, I_C=0	5			V
Collector Cut-Off Current	I_{CES}	V_{CB}=80V, V_{EB}=0			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			
	h_{FE2}	V_{CE}=1V, I_C=4A	40			
Output Capacitance	C_{OB}	V_{CB}=10V		130		pF
Transition Frequency	f_T	V_{CE}=10V, I_C=500mA, f=20MHz		50		MHz

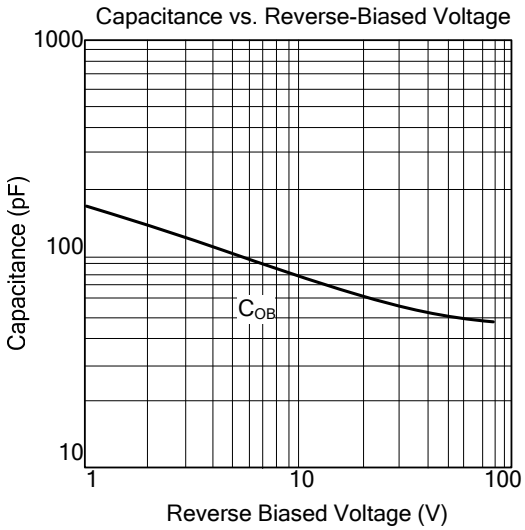
Note: Pulse Test: Pulse Width ≤380us, Duty Cycle≤2%

■ TYPICAL CHARACTERISTICS









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TL431G-AB3-R ULN2803G-D18-T TDA7052AG-S08-R 78L08G-AB3-R LM7805L-TA3-T
LM7812L(W2) TO-220 U3525G-S16-R LD1117AG-18-AA3-A-R UF540G-TN3-R 78D15L TO252 T/R
LD1117AG-15-AA3-A-R LM2940G-12-AA3-R UT4421G-S08-R DTA143EG-AE3-R LM358G-S08-R
TL431K-T92-B U74LVC14AG-S14-R 78D09AL-TN3-R MC4558G-S08-R UL497G-S16-R 2SC5353BL-TN3-R
3N80L-TN3-R BAV99G-AE3-R TDA7265L-J11-A-T UR132G-33-AE3-3-R