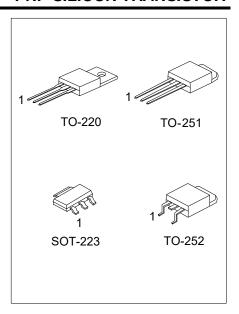
HJ45H11

PNP SILICON TRANSISTOR

PNP EPITAXIAL PLANAR TRANSISTOR

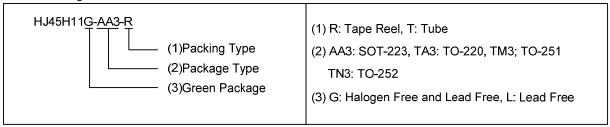
DESCRIPTION

The **HJ45H11** is designed for various specific and general purpose applications, such as: output and driver stages of amplifiers operating at frequencies from DC to greater than 1MHz; series, shunt and switching regulators; low and high frequency inverters/converters; and many others.

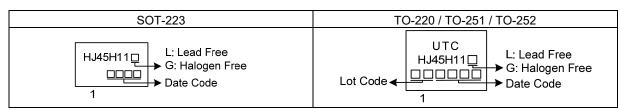


ORDERING INFORMATION

Daakina	Pin Assignment			Daakana	Ordering Number	
Packing	3	2	1	Package	Halogen Free	Lead Free
Tape Reel	Е	C	В	SOT-223	HJ45H11G-AA3-R	HJ45H11L-AA3-R
Tube	Е	C	В	TO-220	HJ45H11G-TA3-T	HJ45H11L-TA3-T
Tube	Е	C	В	TO-251	HJ45H11G-TM3-T	HJ45H11L-TM3-T
Tape Reel	Е	С	В	TO-252	HJ45H11G-TN3-R	HJ45H11L-TN3-R
Tube	Е	С	В	TO-252	HJ45H11G-TN3-T	HJ45H11L-TN3-T



MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage (Open Emitter)		V_{CBO}	-80	V
Collector- Emitter Voltage		V_{CEO}	-80	V
Collector-Emitter Voltage		V _{CES}	-80	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	Continuous	Ic	-10	Α
	Peak (T _C =25°C)	I _{CM}	-15	Α
Base Current	Base Current		-5	Α
Power Dissipation (T _C =25°C)	SOT-223		5	W
	TO-220	P_D	65	W
	TO-251/TO-252		20	W
Junction Temperature	unction Temperature		-40 ~ +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.

■ THERMAL DATA

PARAMETER _.		SYMBOL	RATINGS	UNIT
Junction to Case (Note)	SOT-223	Өлс	25	°C/W
	TO-220		1.92	°C/W
	TO-251/TO-252		6.25	°C/W

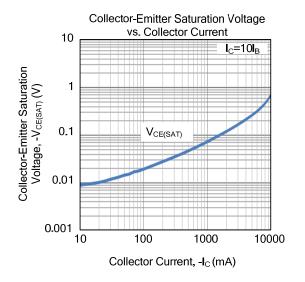
Note: Device mounted on FR-4 substrate Pc board, 2oz copper, with 1inch square copper plate.

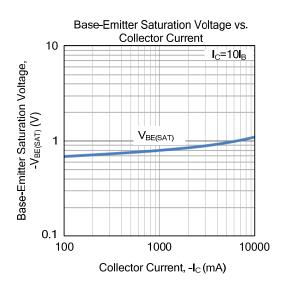
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

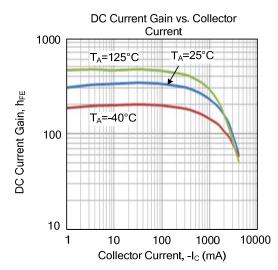
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
ВУсво	I _C = -1mA, I _E =0	-80			V
BV _{CEO}	I _C =-30mA, I _B =0	-80			V
BV _{CES}	I _C =-1mA, I _B =0	-80			V
BV_{EBO}	I _E =-1mA, I _C =0	-5			V
Ісво	V _{CB} =-80V, V _{EB} =0			-1	uA
I _{CES}	V _{CE} =-80V, V _{EB} =0			-1	uA
I _{EBO}	V _{EB} =-5V, I _C =0			-1	uA
V _{CE(SAT)}	I _C =-8A, I _B =-0.8A			-1	V
V _{BE(SAT)}	I _C =-8A, I _B =-0.8A			-1.5	V
h _{FE1}	V _{CE} =-1V, I _C =-2A	60			
h _{FE2}	V _{CE} =-1V, I _C =-4A	40			
Сов	V _{CB} =-10V		105		pF
f⊤	V _{CE} =10V, I _C =500mA, f=20MHz		50		MHz
t _D + t _R	I _C =-5.0A, I _{B1} =-0.5A		33		ns
ts	S		1720		ns
t_{F}	IC3.UA, IB1- IB2=-U.5A		150		ns
	BVcB0 BVcE0 BVcE0 BVcE0 BVEB0 ICB0 ICES IEB0 VCE(SAT) VBE(SAT) hFE1 hFE2 COB fT tD+tR	BVcBO Ic=-1mA, IE=0 BVcEO Ic=-30mA, IB=0 BVcES Ic=-1mA, IB=0 BVEBO IE=-1mA, IC=0 ICBO VCB=-80V, VEB=0 ICES VCE=-80V, VEB=0 ICES VCE=-80V, VEB=0 VCE(SAT) IC=-8A, IB=-0.8A VBE(SAT) IC=-8A, IB=-0.8A VBE(SAT) VCE=-1V, IC=-2A NFE1 VCE=-1V, IC=-4A COB VCB=-10V TOBE VCE=10V, IC=500mA, IE=20MHz IC=-5.0A, IB=1=1B2=-0.5A IC=-5.0A, IB=1B2=-0.5A IC=	BVcBO	BVcBO	BVcBO Ic=-1mA, IE=0 -80 BVcEO Ic=-30mA, IB=0 -80 BVcES Ic=-1mA, IB=0 -80 BVEBO IE=-1mA, Ic=0 -5 IcBO VcB=-80V, VEB=0 -1 IcES VcE-80V, VEB=0 -1 IcES VcE-80V, VEB=0 -1 VcE(SAT) Ic=-8A, IB=-0.8A -1 VBE(SAT) Ic=-8A, IB=-0.8A -1.5 NFE1 VcE=-1V, Ic=-2A 60 NFE2 VcE=-1V, Ic=-4A 40 COB VcB=-10V 105 T VcE=10V, Ic=500mA, f=20MHz 50 tD + tR Ic=-5.0A, IB1=-0.5A 33 tS Ic=-5.0A, IB1= IB2=-0.5A 1720

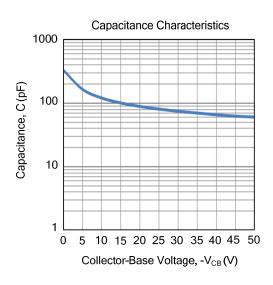
Note: Pulse Test: Pulse Width ≤ 380us, Duty Cycle ≤ 2%.

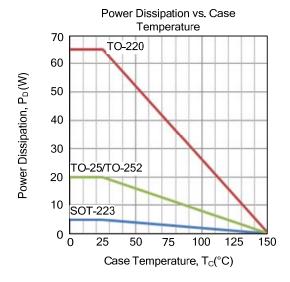
■ TYPICAL CHARACTERISTICS

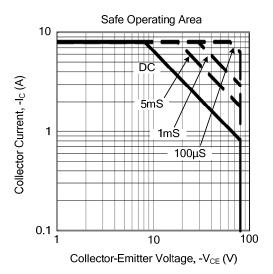












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