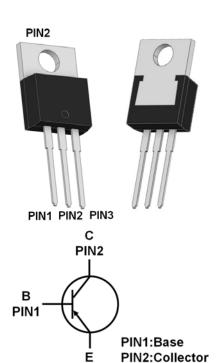




PNP Silicon Power Transistors



PIN₃

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- High thermal power dissipation capability
- Low collector emitter saturation voltage

Applications

- Complement to MJC44H11
- Power management

Mechanical Data

• Package: TO-220AB

• Terminals: Tin plated leads, solderable per J-STD-002

and JESD22-B102Unit Weight: 1.9g

■ Maximum Ratings (Ta=25°C unless otherwise noted)

PIN3:Emitter

ltem	Symbol	Unit	Value
Device marking code			MJC45H11
Collector-base voltage	V_{CBO}	V	-100
Collector-emitter voltage	$V_{\sf CEO}$	V	-80
Emitter-base voltage	V_{EBO}	V	-6
Collector current	Ic	А	-8
Power dissipation	P_D	W	1.25
Thermal resistance, junction-to-ambient (Note1)	R_{thJA}	°C/W	100
Junction temperature	Tj	℃	-55 to +150
Storage temperature	T_{STG}	°C	-55 to +150

Note1: Device mounted on PCB with minimum recommended pad layout and additional heat sink (25mm x 23mm x 15mm) attached.

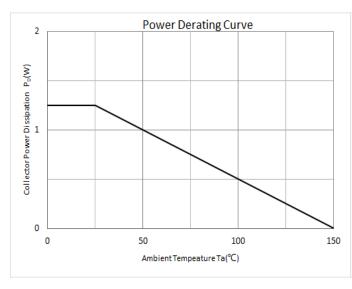


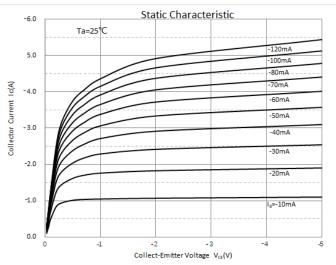


■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	I _C = -100uA, I _E =0	-100		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	I _C = -10mA, I _B =0	-80		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	I _E = -100uA, I _C =0	-6		
Collector-base cut-off current	I _{CES}	uA	V _{CB} =-80V			-1
Emitter-base cut-off current	I _{EBO}	uA	V _{EB} =-10V			-1
DC current sein	h _{FE}		V _{CE} = -1V, I _C = -2A	60		
DC current gain			V _{CE} = -1V, I _C = -4A	40		
Collector-emitter saturation voltage	V _{CE(sat)}	V	I _C = -8A, I _B = -0.4A			-1.0
Base-emitter saturation voltage	$V_{BE(sat)}$	V	I _C = -8A, I _B = -0.8A			-1.5
Collector-base output capacitance	Cob	pF	V _{CB} =-10V,I _E =0A,f=1MHz		113	

■ Characteristics(Typical)

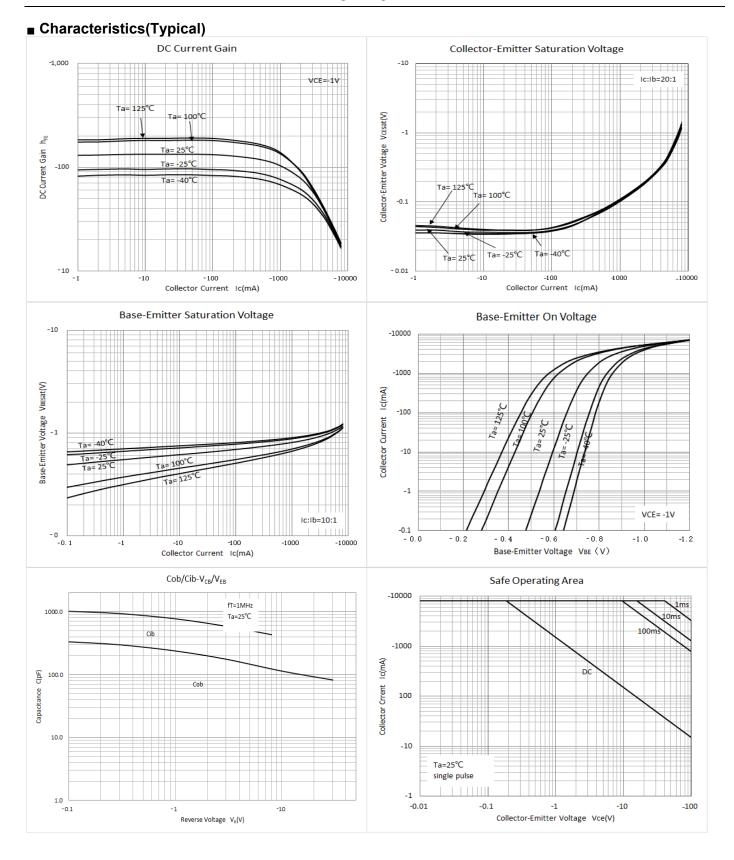












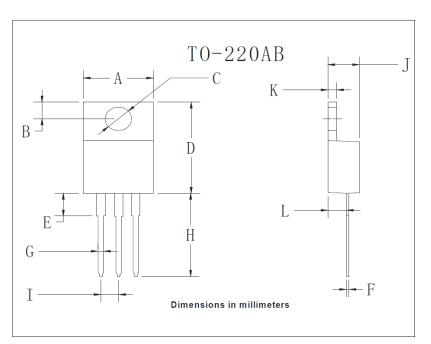




■ Ordering Information (Example)

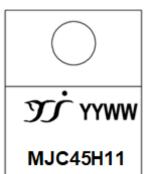
PREFERED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MJC45H11	B1	50/Tube	1000	5000	Tube

■ TO-220AB Package information



TO-220AB				
Dim	Min	Max		
Α	9.95	10.35		
В	2.55	2.95		
С	3.8	4.0		
D	14.95	15.25		
Е	3.75	4.25		
F	0.26	0.5		
G	0.68	0.94		
Н	13.4	13.9		
I	2.35	2.65		
J	4.38	4.78		
K	1.14	1.4		
L	2.37	2.79		

■ Marking code

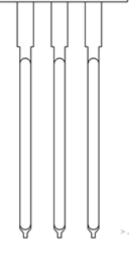


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YYWW: YY, years; WW, week.

For example,24 represents 2024; 01 represents the first week of this year.

MJC45H11: Product model.







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