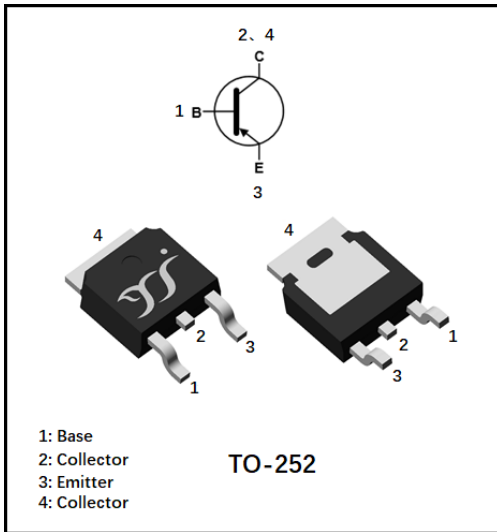


PNP Power Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1

Applications

- Designed for general purpose amplifier and low speed switching applications.

Mechanical Data

- Package: TO-252
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102



MJD45H11

■ Maximum Ratings (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Value
Device marking code			MJD45H11
Collector-Base Voltage	V_{CBO}	V	-100
Collector-Emitter Voltage	V_{CEO}	V	-80
Emitter-Base Voltage	V_{EBO}	V	-6
Collector Current -Continuous	I_C	A	-8
Total Device Dissipation (*)	P_D	W	1.25
Thermal Resistance, Junction to Ambient Air (*)	R_{thJA}	°C/W	100
Junction Temperature	T_j	°C	-55 to +150
Storage Temperature	T_{STG}	°C	-55 to +150

(*) Device mounted on FR-4 PCB 1.0*1.0*0.06 inch, mounting pad for collector 1 cm²

■ Electrical Characteristics (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-100		
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C=-10mA, I_B=0$	-80		
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-6		
Collector-base cut-off current	I_{CES}	μA	$V_{CE}=-80V, V_{EB}=0$	-	-	-10
Emitter-base cut-off current	I_{EBO}	μA	$V_{EB}=-5V, I_C=0$			-1
DC current gain	h_{FE}		$V_{CE}=-1V, I_C=-2A$	60		
			$V_{CE}=-1V, I_C=-4A$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=-8A, I_B=-0.4A$			-1
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C=-8A, I_B=-0.8A$			-1.5

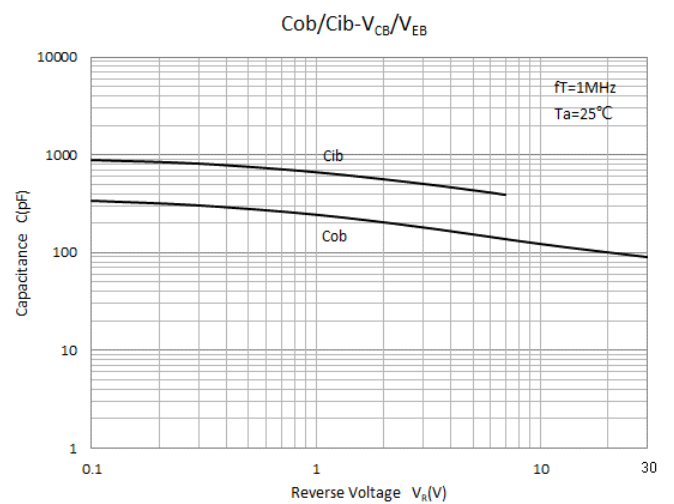
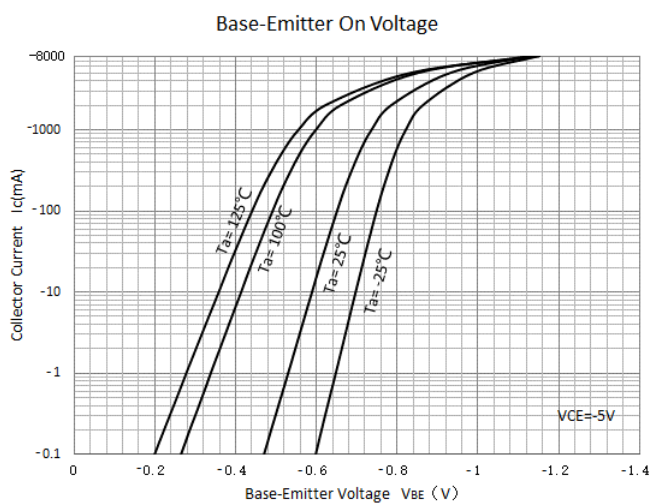
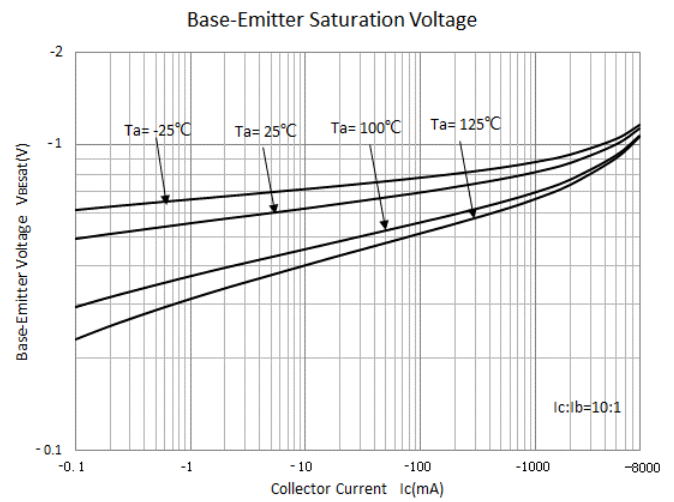
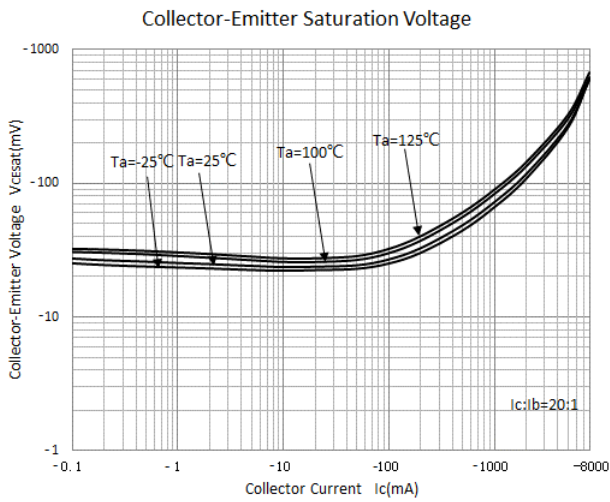
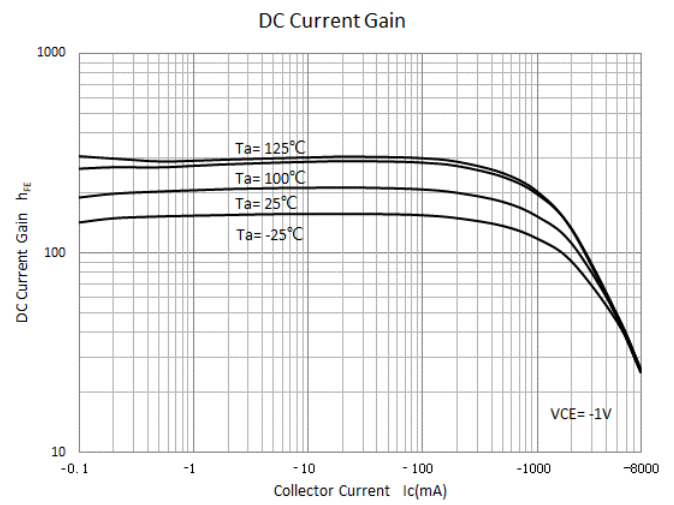
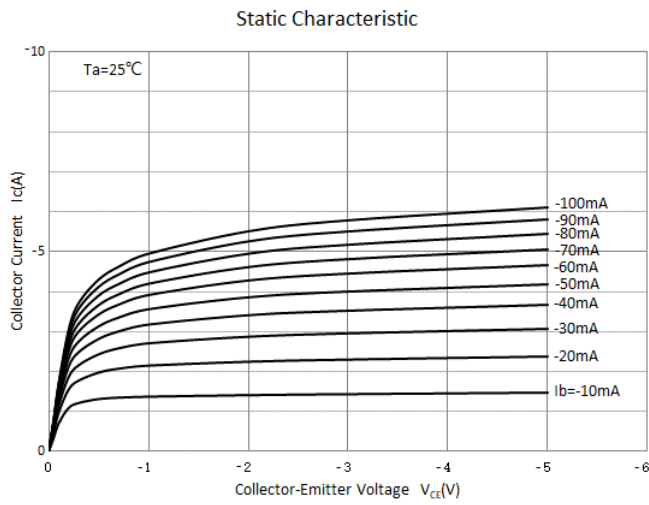
■ Other Characteristics (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Transition frequency	f_T	MHz	$V_{CE}=-5V, I_C=-1A$	10	-	-



MJD45H11

■ Characteristics(Typical)



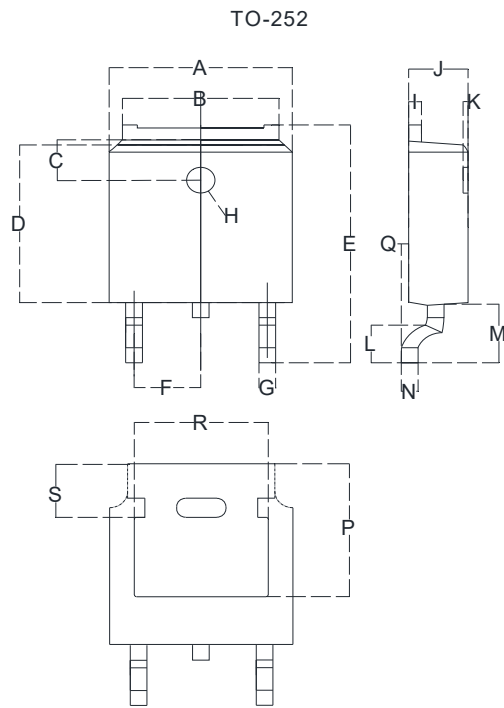
■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MJD45H11	F1	2500	2500	25000	13"Reel



MJD45H11

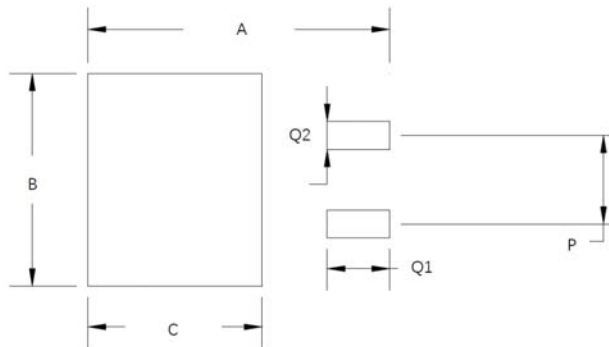
■ TO-252 Package information



Dimensions in millimeters

TO-252		
Dim	Min	Max
A	6.500	6.700
B	5.100	5.460
C	1.400	1.800
D	6.000	6.200
E	10.000	10.400
F	2.166	2.366
G	0.660	0.860
H	Φ 1.050	Φ 1.350
I	0.460	0.580
J	2.200	2.400
K	0	0.300
L	0.890	2.290
M	2.730	3.080
N	0.430	0.580
P	5.15	5.45
Q	0	0.2
R	4.50	5.10
S	1.60	2.40

■ Suggested Pad Layout



Dim	Millimeters
A	11.4
B	6.74
C	6.23
P	4.56
Q1	2.28
Q2	1.52



Disclaimer

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