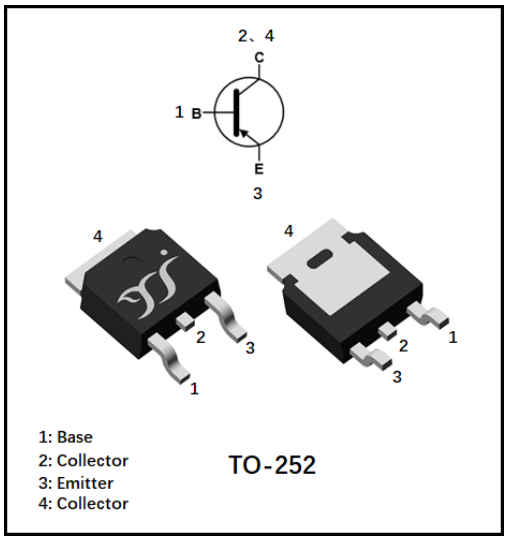
PNP Power Transistor



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.

Mehanical Data

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

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

Item	Symbol	Unit	Value
Device marking code			MJD32C
Collector-Base Voltage	V_{CBO}	V	-100
Collector-Emitter Voltage	V_{CEO}	V	-100
Emitter-Base Voltage	V_{EBO}	V	-5
Collector Current -Continuous	I_C	A	-3
Total Device Dissipation (*)	P_D	W	1.25
Thermal Resistance, Junction to Ambient Air (*)	R_{thJA}	℃/W	100
Junction Temperature	T_j	℃	-55 to +150
Storage Temperature	T_{STG}	℃	-55 to +150

(*) Device mounted on FR-4 PCB 15 x 17 x 0.8 mm

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

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V_{CBO}	V	I_C= -1mA, I_E=0	-100		
Collector-emitter breakdown voltage	V_{CEO}	V	I_C= -30mA, I_B=0	-100		
Emitter-base breakdown voltage	V_{EBO}	V	I_E= -1mA, I_C=0	-5		
Collector-base cut-off current	I_{CEO}	uA	V_{CE}= -60V, I_B =0			-50
Collector-base cut-off current	I_{CES}	uA	V_{CE}= -100V , V_{EB}=0			-20
Emitter-base cut-off current	I_{EBO}	mA	V_{EB}= -5V , I_C=0			-1
DC current gain	h_{FE}		V_{CE}= -4V, I_C= -1A	25		
			V_{CE}= -4V, I_C= -3A	10		75
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	I_C= -3A, I_B= -0.375A			-1.2
Base-emitter voltage	V_{BE}	V	I_C= -3A, V_{CE}= -4V			-1.8

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

Item	Symbol	Unit	Conditions	Min	Typ	Max
Transition frequency	f_T	MHz	V_{CE}= -10V, I_C= -0.5A, f=1KHz	3		

■ **Characteristics**(Typical)

Fig 1：Static Characteristics

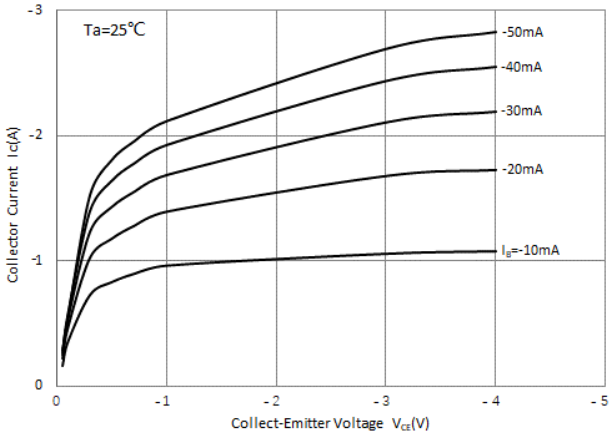


Fig 2：DC Current Gain

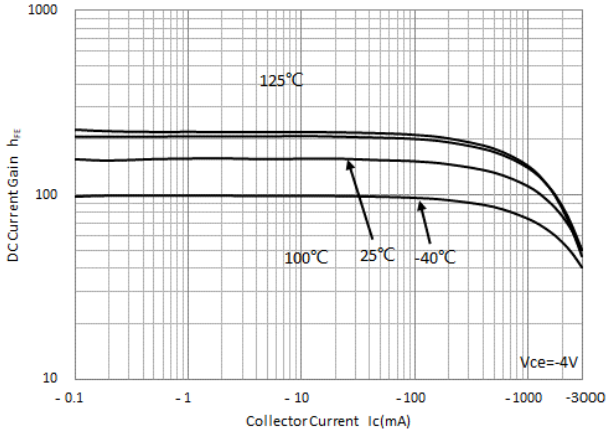


Fig 3：Collector-Emitter Saturation Voltage

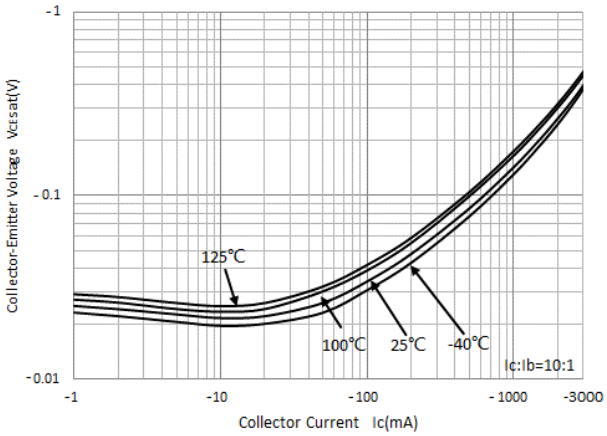


Fig 4：Base-Emitter Saturation Voltage

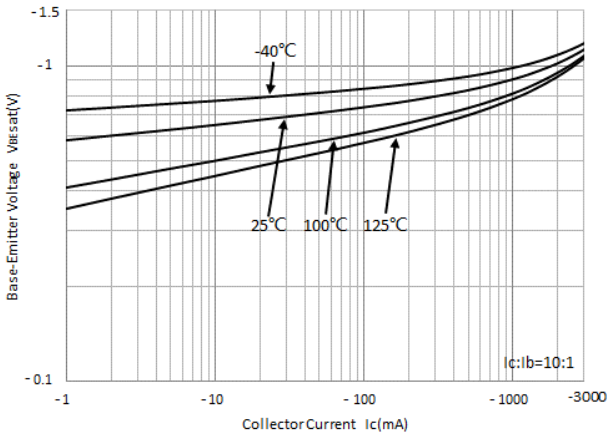


Fig 5：Base-Emitter On Voltage

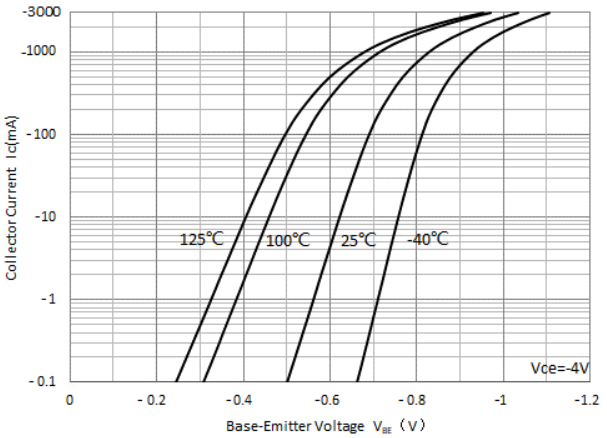
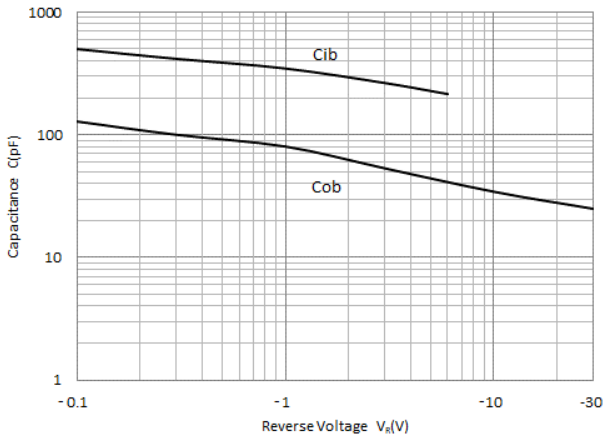


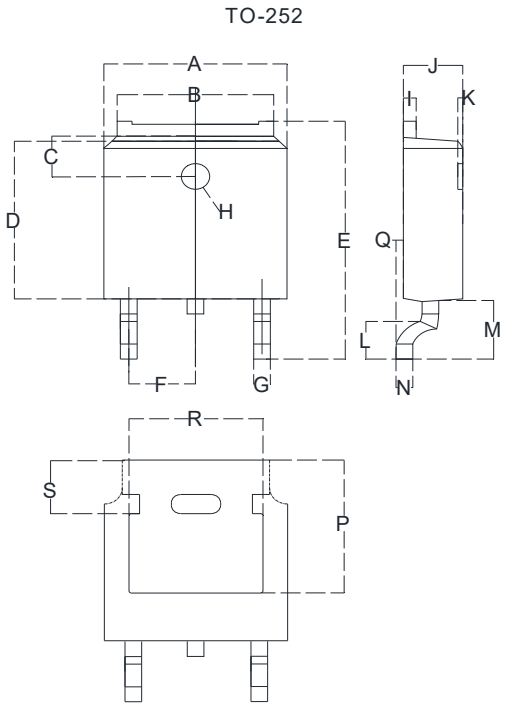
Fig 6：Cob/Cib-V_{CB}/V_{EB}



■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MJD32C	F1	2500	2500	25000	13”Reel

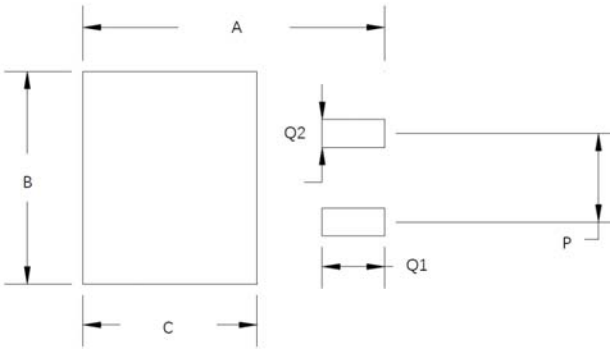
■ TO-252 Package information



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	Φ1.050	Φ1.350
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

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