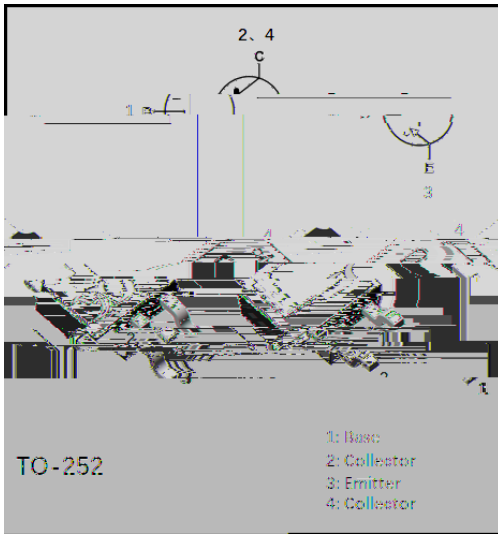


PNP Power Transistor



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 JEDEC

	Symbol	Unit	Value
Device marking code			MJD42C
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	-6
Total Device Dissipation (*)	P_D	W	1.25
Thermal Resistance x tion 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



MJD42C

■ Electrical Characteristics (Ta=25 unless otherwise noted)

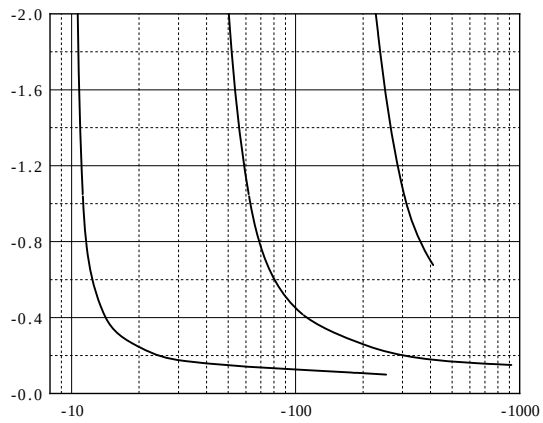
Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C = -0.1mA, I_E = 0$	-100		
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C = -30mA, I_B = 0$	-100		
Emitter-base breakdown voltage	V_{EBO}	V	$I_E = -0.1mA, I_C = 0$	-5		
Collector-base cut-off current	I_{CEO}	μA	$V_{CE} = -60V, I_B = 0$			-50
Emitter-base cut-off current	I_{EBO}	mA	$V_{EB} = -5V, I_C = 0$			-0.5
DC current gain	h_{FE}		$V_{CE} = -4V, I_C = -1A$	30		
			$V_{CE} = -4V, I_C = -3A$	15		75
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C = -6A, I_B = -0.6A$			-1.5
Base-emitter voltage	V_{BE}	V	$I_C = -6A, V_{CE} = -4V$			-2.0

■ 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)



MJD42C



MJD42C

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