



PBSS4232DD

NPN Low Vce(sat) Transistor

Voltage

32V

Current

2A

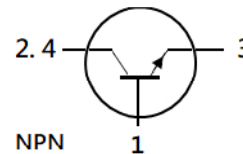
Features

- Silicon NPN epitaxial type
- Low Vce(sat) 0.8V(max)@Ic/Ib= 2A / 200mA
- High collector current capability
- Excellent DC current gain characteristics
- Lead free in comply with EU RoHS 2.0
- Green molding compound as per IEC61249 Standard

Mechanical Data

- Case: TO-252AA Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0104 ounces, 0.297 grams

TO-252AA



Pin Assignment:

1. Base
- 2.4. Collector
3. Emitter

Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CB0}	40	V
Collector-Emitter Voltage	V _{CEO}	32	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current (DC)	I _C	2	A
Collector Current (Pulse)	I _{CP}	3	A
Base Current (DC)	I _B	0.2	A
Collector Power Dissipation	P _D	2.0	W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55~150	°C
Thermal Resistance from Junction to Ambient ^(Note)	R _{θJA}	62.5	°C/W

Note: Mounted on FR4 with 2oz. PCB at 1 inch square copper pad.



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Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics						
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = 10mA, I _B = 0A	32	-	-	V
Collector-Base Breakdown Voltage	BV _{CBO}	I _C = 0.1mA, I _E = 0A	40	-	-	V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = 0.1mA, I _C = 0A	5	-	-	V
Collector-Base Cutoff Current	I _{CBO}	V _{CB} = 40V, I _E = 0A	-	-	100	nA
Collector-Emitter Cutoff Current	I _{CES}	V _{CE} = 32V	-	-	100	nA
Emitter-Base Cutoff Current	I _{EBO}	V _{EB} = 5V	-	-	100	nA
ON characteristics						
DC Current Gain	h _{FE}	V _{CE} = 3V I _C = 100mA	180	-	-	-
		V _{CE} = 3V I _C = 500mA	180	-	390	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = 500mA, I _B = 50mA	-	100	250	mV
		I _C = 1A, I _B = 100mA	-	250	400	
		I _C = 2A, I _B = 200mA	-	350	800	
Base-Emitter Saturation voltage	V _{BE(SAT)}	I _C = 2A, I _B = 200mA	-	0.85	1.3	V
Base-Emitter ON voltage	V _{BE(ON)}	V _{CE} = 3V, I _C = 2A	-	0.95	1.2	V
Transition Frequency	f _T	I _C = 0.5A, V _{CE} = 5V f=100MHz	-	270	-	MHz
Collector Output Capacitance	C _{OB}	V _{CB} = 10V I _E = 0A, f=1MHz	-	14	-	pF



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TYPICAL CHARACTERISTIC CURVES

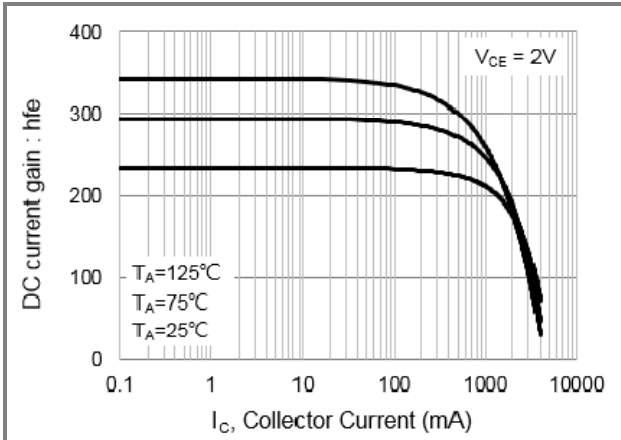


Fig.1 DC Current Gain

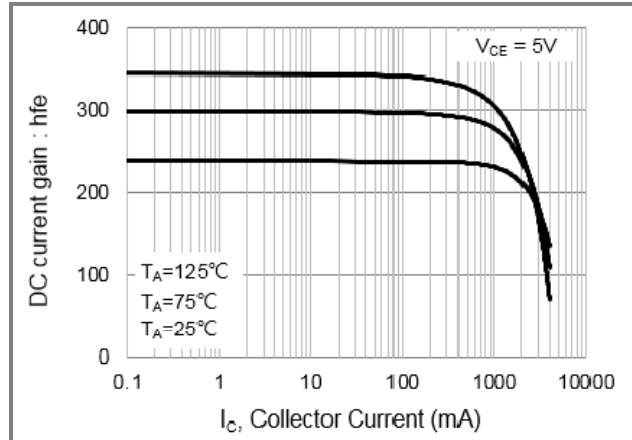


Fig.2 DC Current Gain

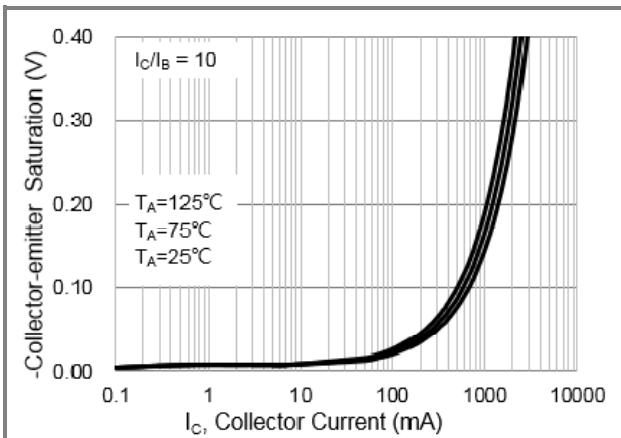


Fig.3 Collector-Emitter Saturation Voltage

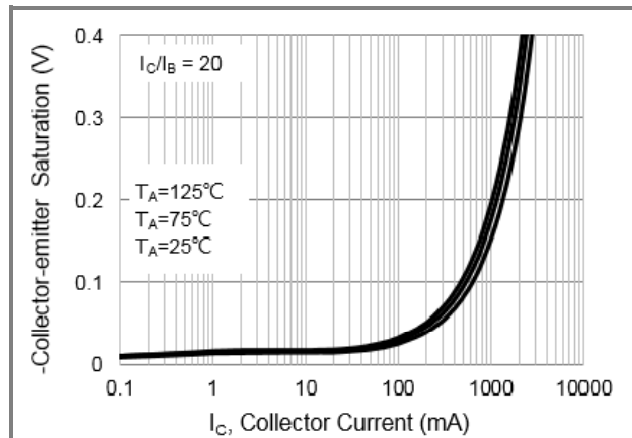


Fig.4 Collector-Emitter Saturation Voltage

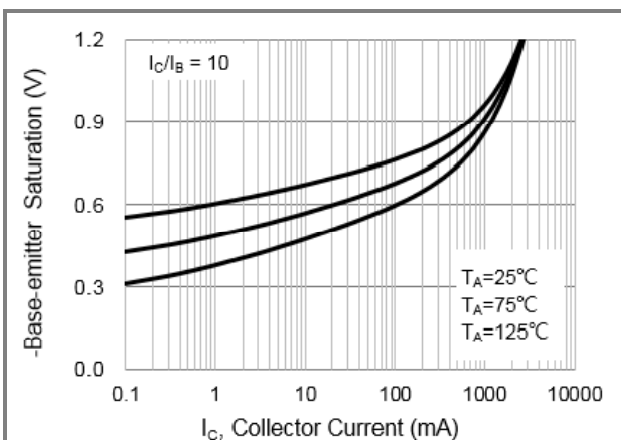


Fig.5 Base-Emitter Saturation Voltage

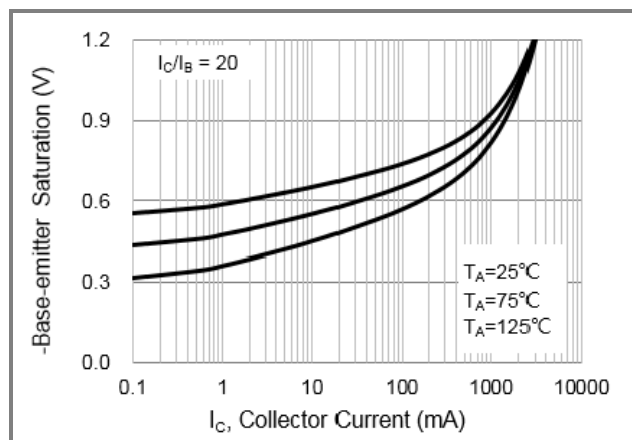


Fig.6 Base-Emitter Saturation Voltage



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TYPICAL CHARACTERISTIC CURVES

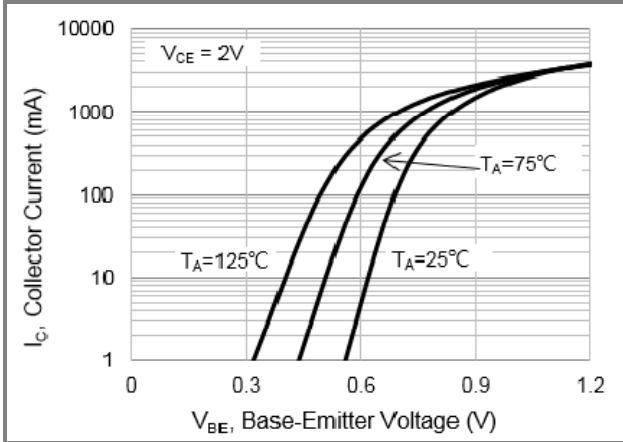


Fig.7 Base-Emitter Voltage

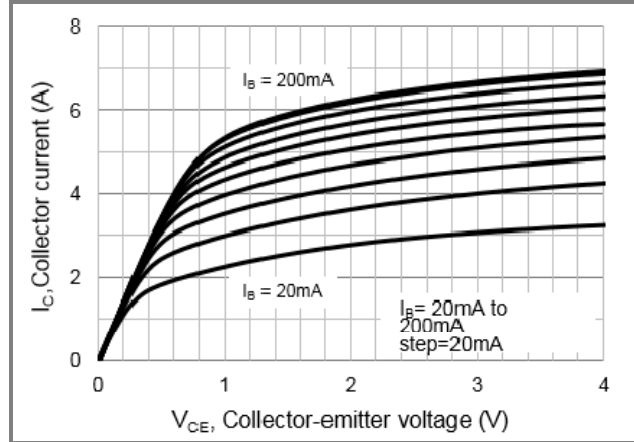


Fig.8 Collector Current

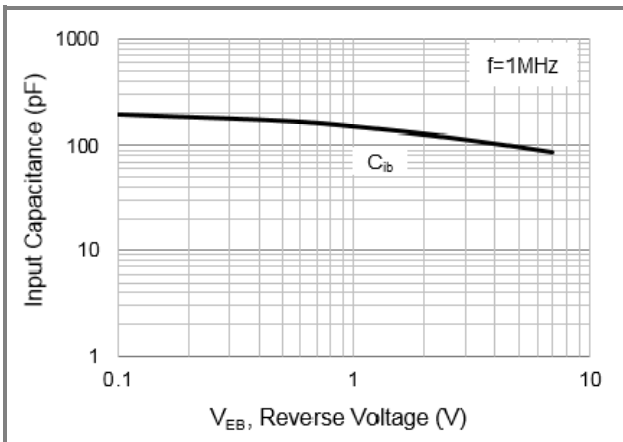


Fig.9 Input Capacitance

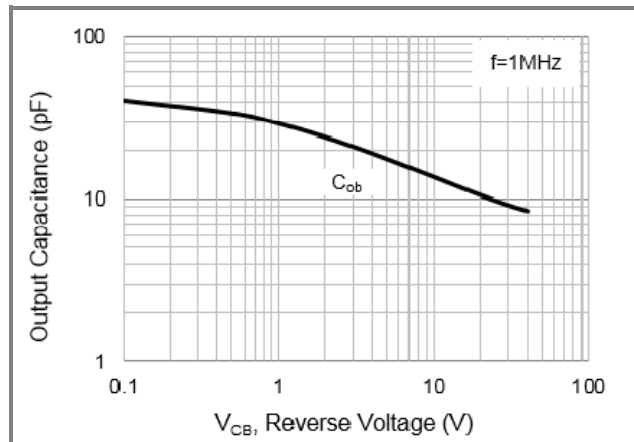


Fig.10 Output Capacitance

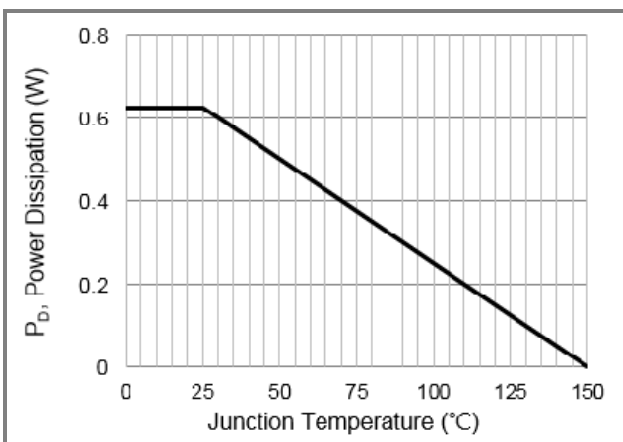


Fig.11 Power Derating Curve

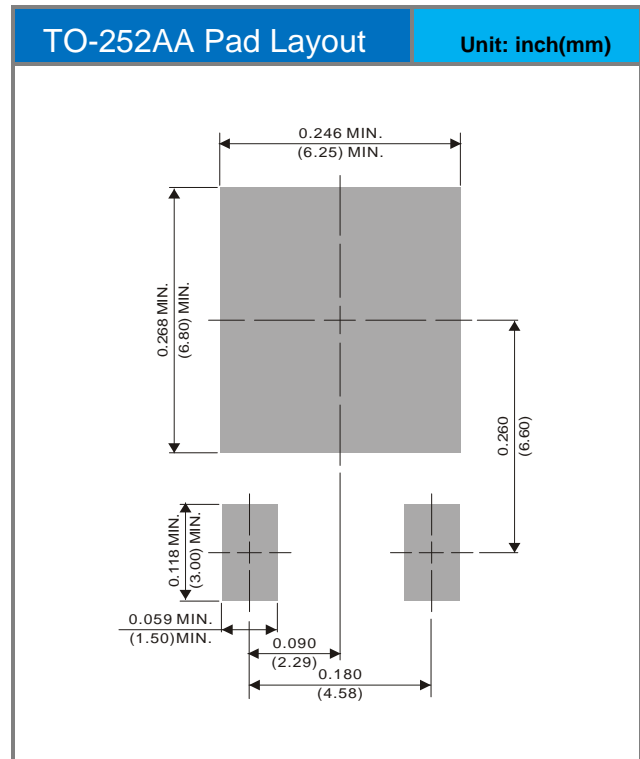
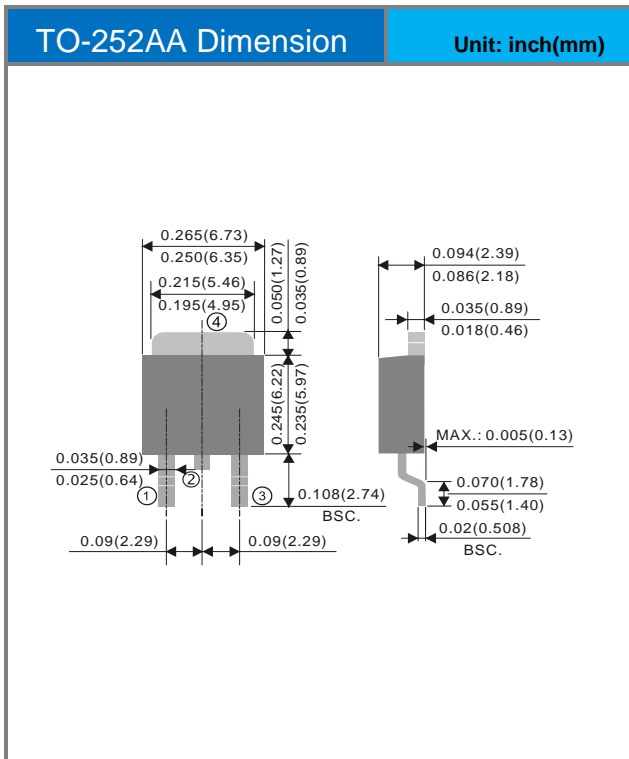


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PBSS4232DD_L2_00001	TO-252AA	3,000 pcs / 13" reel	4232DD	Halogen free

Packaging Information & Mounting Pad Layout





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