

1. General description

NPN/PNP low V_{CEsat} Breakthrough In Small Signal (BISS) double transistor in a leadless medium power DFN2020D-6 (SOT1118D) Surface-Mounted Device (SMD) plastic package with visible and solderable side pads.

NPN/NPN complement: PBSS4260PANS

PNP/PNP complement: PBSS5260PAPS

2. Features and benefits

- Very low collector-emitter saturation voltage V_{CEsat}
- High collector current capability I_C and I_{CM}
- High collector current gain h_{FE} at high I_C
- Reduced Printed-Circuit Board (PCB) requirements
- Exposed heat sink for excellent thermal and electrical conductivity
- High energy efficiency due to less heat generation
- Suitable for Automatic Optical Inspection (AOI) of solder joints
- AEC-Q101 qualified

3. Applications

- Load switch
- Battery-driven devices
- Power management
- Charging circuits
- LED lighting
- Power switches (e.g. motors, fans)

4. Quick reference data

Table 1. Qui	ck reference data						
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Per transistor,	Per transistor, for the PNP transistor with negative polarity						
V _{CEO}	collector-emitter voltage	open base		-	-	60	V
I _C	collector current			-	-	2	А
I _{CM}	peak collector current	single pulse; t _p ≤ 1 ms		-	-	3	А





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60 V, 2 A NPN/PNP low VCEsat (BISS) double transistor

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TR1 (NPN)						
R _{CEsat}	collector-emitter saturation resistance	$\begin{split} I_C = 1 \text{ A}; \ I_B = 50 \text{ mA}; \ \text{pulsed}; \\ t_p \leq 300 \mu\text{s}; \ \delta \leq 0.02 \ ; \ T_{\text{amb}} = 25 \ ^\circ\text{C} \end{split}$	-	-	200	mΩ
TR2 (PNP)						
R _{CEsat}	collector-emitter saturation resistance	I_{C} = -1 A; I_{B} = -50 mA; pulsed; t_{p} ≤ 300 µs; δ ≤ 0.02; T_{amb} = 25 °C	-	-	310	mΩ

5. Pinning information

Table 2.	Pinning	information		
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	E1	emitter TR1	6 5 4	C1 B2 E2
2	B1	base TR1		
3	C2	collector TR2	7 8	
4	E2	emitter TR2		
5	B2	base TR2	1 2 3	E1 B1 C2
6	C1	collector TR1	Transparent top view DFN2020D-6 (SOT1118D)	sym139
7	C1	collector TR1	DI 142020D-0 (SOTTIOD)	
8	C2	collector TR2		

6. Ordering information

Table 3. Ordering inf	able 3. Ordering information						
Type number	Package						
	Name	Description	Version				
PBSS4260PANPS	DFN2020D-6	DFN2020D-6: plastic, thermally enhanced ultra thin and small outline package; no leads; 6 terminals; body 2 x 2 x 0.65 mm	SOT1118D				

7. Marking

	Table 4. Marking codes	
Type number		Marking code
	PBSS4260PANPS	3D

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8. Limiting values

Table 5.Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions		Min	Max	Unit
Per transis	tor, for the PNP transistor with	negative polarity	I			
V _{CBO}	collector-base voltage	open emitter		-	60	V
V _{CEO}	collector-emitter voltage	open base		-	60	V
V _{EBO}	emitter-base voltage	open collector		-	7	V
lc	collector current			-	2	А
I _{CM}	peak collector current	single pulse; t _p ≤ 1 ms		-	3	А
I _B	base current			-	0.3	Α
I _{BM}	peak base current	single pulse; t _p ≤ 1 ms		-	1	А
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C	[1]	-	370	mW
			[2]	-	570	mW
			[3]	-	530	mW
			[4]	-	700	mW
Per device						_
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C	[1]	-	510	mW
			[2]	-	780	mW
			[3]	-	730	mW
			[4]	-	960	mW
Тj	junction temperature			-	150	°C
T _{amb}	ambient temperature			-55	150	°C
T _{stg}	storage temperature			-65	150	°C

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

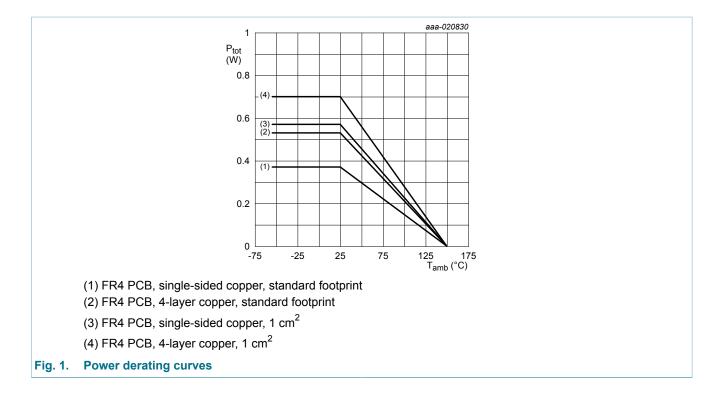
[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single sided copper, tin-plated; mounting pad for collector 1 cm².

[3] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated and standard footprint.

 [4] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated; mounting pad for collector 1 cm².

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9. Thermal characteristics

collector 1 cm².

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Per transist	or				_		
R _{th(j-a)} thermal resistance from junction to ambient		in free air	[1]	-	-	338	K/W
		[2]	-	-	219	K/W	
	ampient		[3]	-	-	236	K/W
			[4]	-	-	179	K/W
Per device							
R _{th(j-a)}	thermal resistance	in free air	[1]	-	-	246	K/W
	from junction to ambient		[2]	-	-	161	K/W
	ampient		[3]	-	-	172	K/W
			[4]	-	-	131	K/W

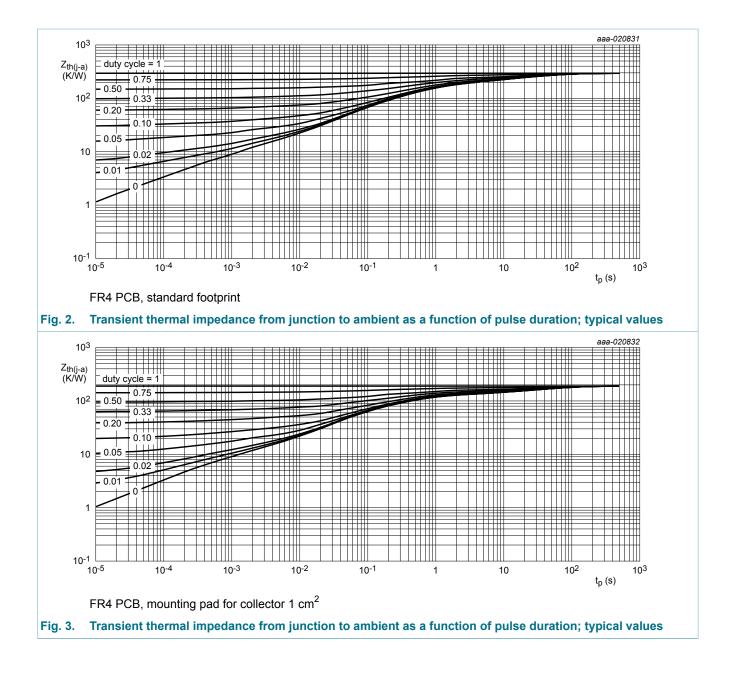
[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for collector 1 cm².

[3] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated and standard footprint.
 [4] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated, mounting pad for

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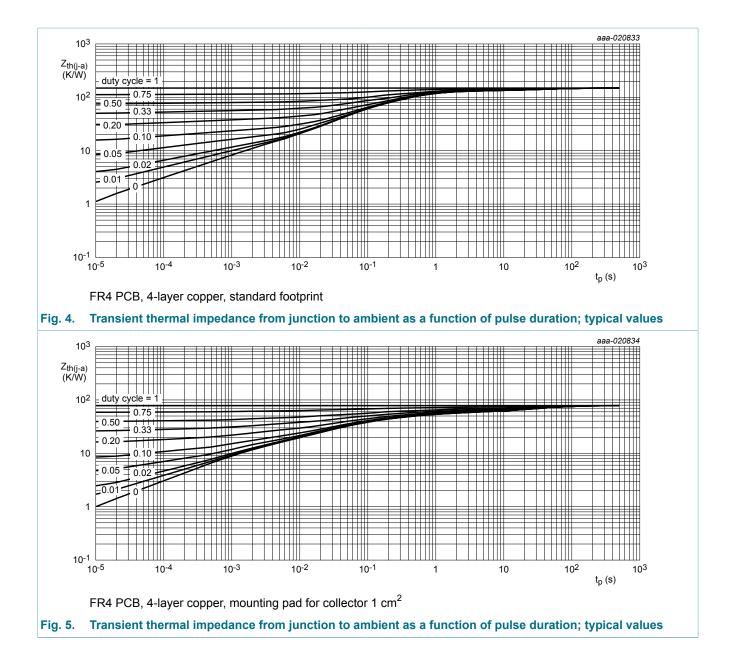
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10. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TR1 (NPN)		/				
I _{CBO}	collector-base cut-off	V_{CB} = 48 V; I _E = 0 A; T _{amb} = 25 °C	-	-	100	nA
	current	V _{CB} = 48 V; I _E = 0 A; T _j = 150 °C	-	-	50	μA
I _{CES}	collector-emitter cut-off current	V_{CE} = 48 V; V_{BE} = 0 V; T_{amb} = 25 °C	-	-	100	nA
I _{EBO}	emitter-base cut-off current	$V_{EB} = 5 \text{ V}; \text{ I}_{C} = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$	-	-	100	nA
h _{FE}	DC current gain	$ \begin{aligned} &V_{CE} \texttt{= 2 V; } I_{C} \texttt{= 100 mA; pulsed;} \\ &t_{p} \texttt{\le 300 \mu s; } \overline{o} \texttt{\le 0.02; } T_{amb} \texttt{= 25 °C} \end{aligned} $	250	400	-	
		V_{CE} = 2 V; I _C = 500 mA; pulsed; t _p ≤ 300 µs; δ ≤ 0.02; T _{amb} = 25 °C	210	330	-	
		V_{CE} = 2 V; I _C = 1 A; pulsed; t _p ≤ 300 µs; δ ≤ 0.02; T _{amb} = 25 °C	120	190	-	
		V_{CE} = 2 V; I_{C} = 2 A; pulsed; t_{p} \leq 300 $\mu s;$ δ \leq 0.02	50	80	-	
V _{CEsat}	/ _{CEsat} collector-emitter saturation voltage	$\begin{split} I_{C} &= 0.5 \text{ A}; I_{B} = 50 \text{ mA}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta \leq 0.02 ; T_{amb} = 25 ^{\circ}\text{C} \end{split}$	-	70	100	mV
		$\begin{split} I_{C} &= 1 \text{ A}; I_{B} = 50 \text{ mA}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta \leq 0.02 ; T_{amb} = 25 ^{\circ}\text{C} \end{split}$	-	140	200	mV
		$\begin{split} I_C &= 2 \text{ A}; I_B = 200 \text{ mA}; \text{ pulsed}; \\ t_p &\leq 300 \mu\text{s}; \delta \leq 0.02 ; T_{amb} = 25 ^\circ\text{C} \end{split}$	-	260	350	mV
R _{CEsat}	collector-emitter saturation resistance	I_C = 1 A; I_B = 50 mA; pulsed; $t_p \le 300 \ \mu$ s; δ ≤ 0.02 ; T_{amb} = 25 °C	-	-	200	mΩ
V _{BEsat}	base-emitter saturation voltage	I_{C} = 0.5 A; I_{B} = 50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02 ; T_{amb} = 25 °C	-	0.92	1	V
		I_{C} = 1 A; I_{B} = 50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C	-	0.96	1.1	V
		I_C = 2 A; I_B = 200 mA; pulsed; $t_p \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C	-	1.18	1.3	V
V _{BE}	base-emitter voltage	I_C = 0.5 A; V _{CE} = 2 V; pulsed; t _p ≤ 300 μs; δ ≤ 0.02; T _{amb} = 25 °C	-	0.77	0.9	V
t _d	delay time	I _C = 1 A; I _{Bon} = 50 mA; I _{Boff} = -50 mA;	-	10	-	ns
t _r	rise time	T _{amb} = 25 °C	-	140	-	ns
t _{on}	turn-on time	-	-	150	-	ns
t _s	storage time	-	-	445	-	ns

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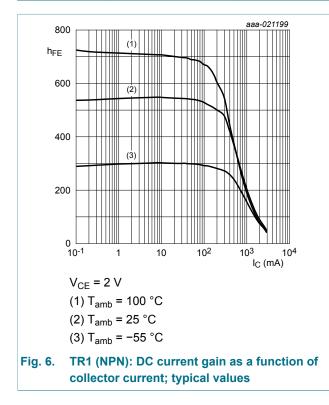
Symbol	Parameter	Conditions	M	in Ty	p	Мах	Unit
t _f	fall time		-	18	80	-	ns
t _{off}	turn-off time		-	62	25	-	ns
f _T	transition frequency	V_{CE} = 10 V; I _C = 500 mA; f = 100 MHz; T _{amb} = 25 °C	-	14	40	-	MHz
C _c	collector capacitance	V _{CB} = 10 V; I _E = 0 A; i _e = 0 A; f = 1 MHz; T _{amb} = 25 °C	-	6.	.5	-	pF
TR2 (PNP)							,
I _{CBO}	collector-base cut-off	V_{CB} = -48 V; I _E = 0 A; T _{amb} = 25 °C	-	-		-100	nA
	current		-	-		-50	μA
I _{CES}	collector-emitter cut-off current	V_{CE} = -48 V; V_{BE} = 0 V; T_{amb} = 25 °C	-	-		-100	nA
I _{EBO}	emitter-base cut-off current	V_{EB} = -5 V; I _C = 0 A; T _{amb} = 25 °C	-	-		-100	nA
h _{FE}	DC current gain	$\begin{split} V_{CE} &= -2 \text{ V; } \text{I}_{C} = -100 \text{ mA; pulsed;} \\ t_{p} &\leq 300 \mu\text{s; } \delta \leq 0.02\text{; } \text{T}_{amb} = 25 ^{\circ}\text{C} \end{split}$	1	70 2	50	-	
		$\begin{split} V_{CE} &= -2 \text{ V; } \text{I}_{C} = -500 \text{ mA; pulsed;} \\ t_{p} &\leq 300 \mu\text{s; } \delta \leq 0.02\text{; } \text{T}_{amb} = 25 ^{\circ}\text{C} \end{split}$	14	40 20	00	-	
		$\begin{split} &V_{CE} \texttt{= -2 V; I}_{C} \texttt{= -1 A; pulsed;} \\ &t_{p} \texttt{\leq 300 } \mu\texttt{s; } \bar{\texttt{o}} \texttt{\leq 0.02; T}_{amb} \texttt{= 25 }^{\circ}\texttt{C} \end{split}$	1'	10 1	50	-	
		$V_{CE} = -2 \text{ V; } I_C = -2 \text{ A; pulsed;}$ $t_p \le 300 \mu\text{s; } \delta \le 0.02\text{; } T_{amb} = 25 ^\circ\text{C}$	50	0 7	5	-	
V _{CEsat}	collector-emitter saturation voltage	I_{C} = -0.5 A; I_{B} = -50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C	-	-1	00	-140	mV
		$\begin{split} I_{C} &= -1 \text{ A}; I_{B} = -50 \text{ mA}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta &\leq 0.02; T_{amb} = 25 ^{\circ}\text{C} \end{split}$	-	-2	200	-310	mV
		I_{C} = -2 A; I_{B} = -200 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C	-	-3	350	-500	mV
R _{CEsat}	collector-emitter saturation resistance	I_{C} = -1 A; I_{B} = -50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C	-	-		310	mΩ
V _{BEsat}	base-emitter saturation voltage	I _C = -0.5 A; I _B = -50 mA; pulsed; t _p ≤ 300 μs; δ ≤ 0.02; T _{amb} = 25 °C	-	-0).89	-1	V
		I_{C} = -1 A; I_{B} = -50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02 ; T_{amb} = 25 °C	-	-0).93	-1.1	V
		I_{C} = -2 A; I_{B} = -200 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C	-	-1	.14	-1.25	V
V _{BE}	base-emitter voltage	I_C = -0.5 A; V _{CE} = -2 V; pulsed; t _p ≤ 300 μs; δ ≤ 0.02; T _{amb} = 25 °C	-	-0).77	-0.9	V
t _d	delay time	I _C = -1 A; I _{Bon} = -50 mA; I _{Boff} = 50 mA;	-	1(C	-	ns
r	rise time	T _{amb} = 25 °C		80	0	_	ns

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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
t _{on}	turn-on time		-	90	-	ns
t _s	storage time	_	-	195	-	ns
t _f	fall time		-	75	-	ns
t _{off}	turn-off time	-	-	270	-	ns
f _T	transition frequency	V _{CE} = -10 V; I _C = -500 mA; f = 100 MHz; T _{amb} = 25 °C	-	100	-	MHz
C _c	collector capacitance	V _{CB} = -10 V; I _E = 0 A; i _e = 0 A; f = 1 MHz; T _{amb} = 25 °C	-	16	-	pF



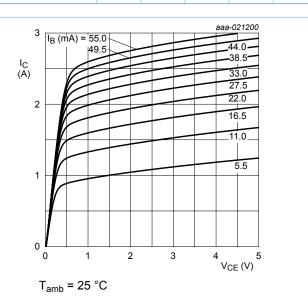
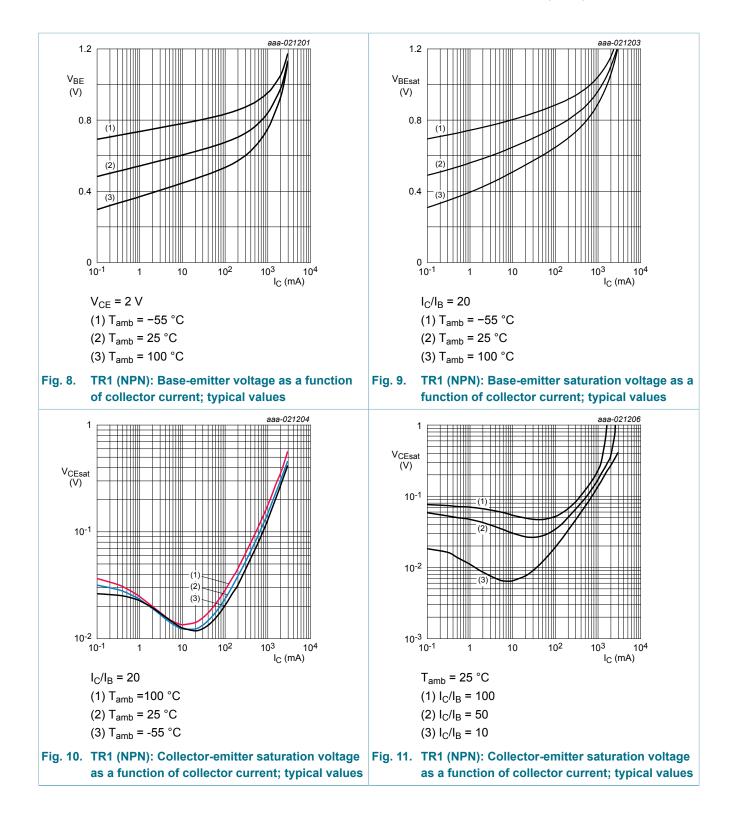


Fig. 7. TR1 (NPN): Collector current as a function of collector-emitter voltage; typical values

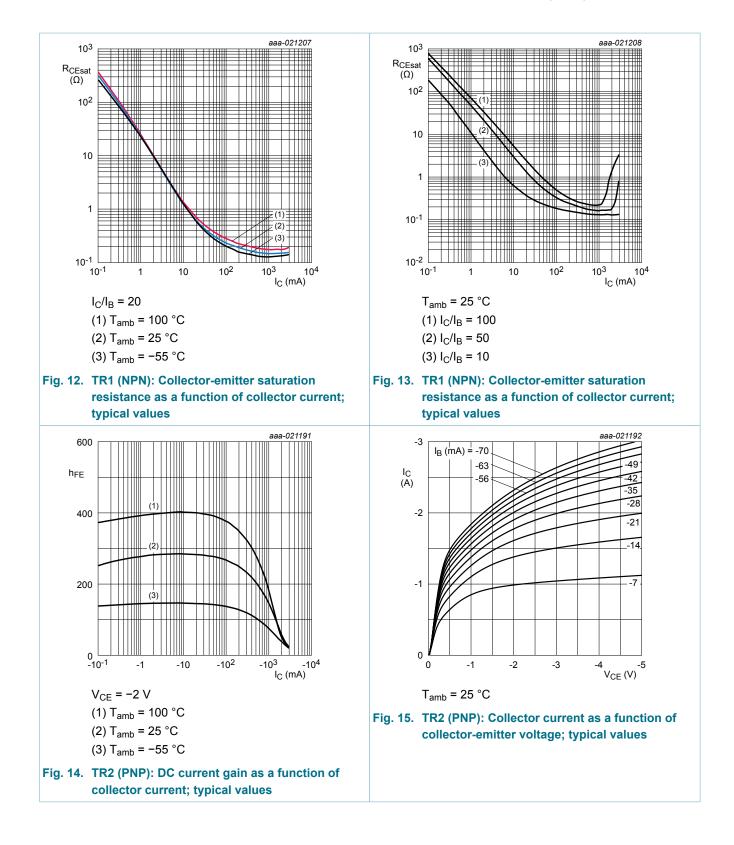
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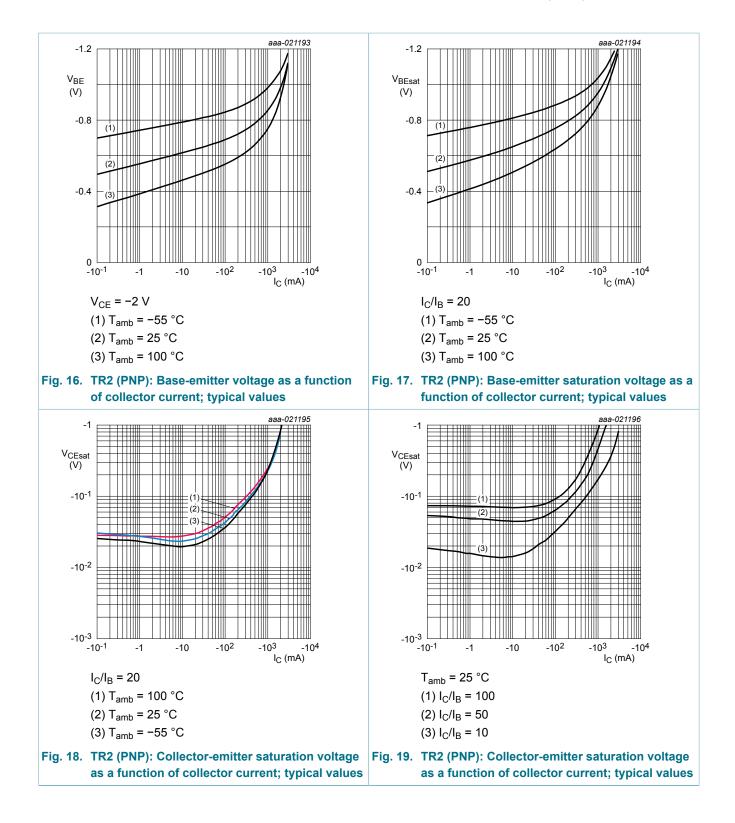
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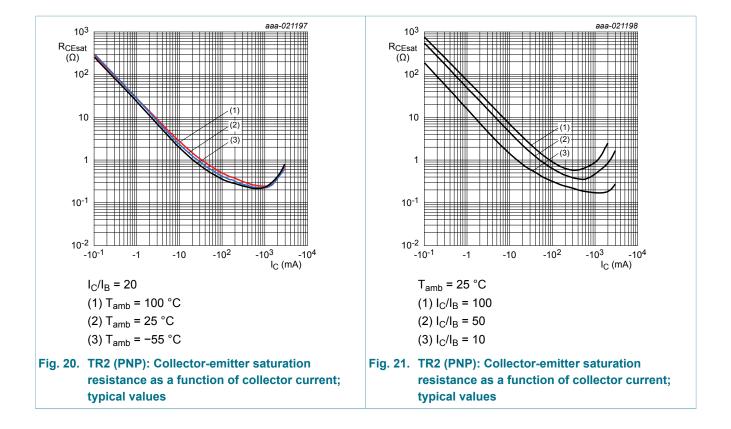
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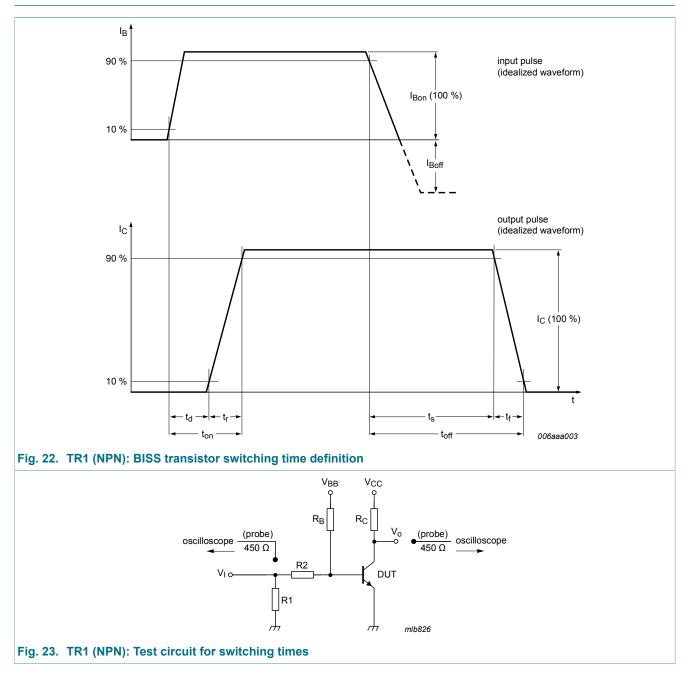
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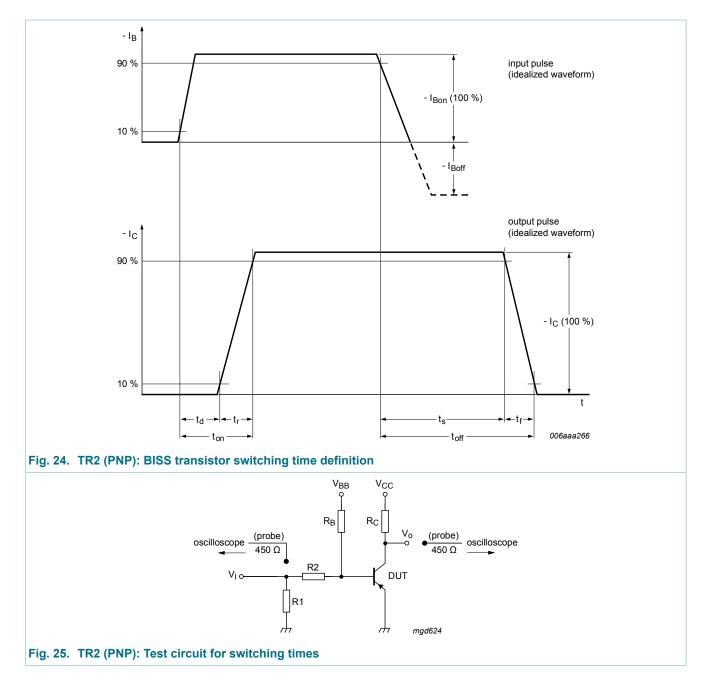
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11. Test information



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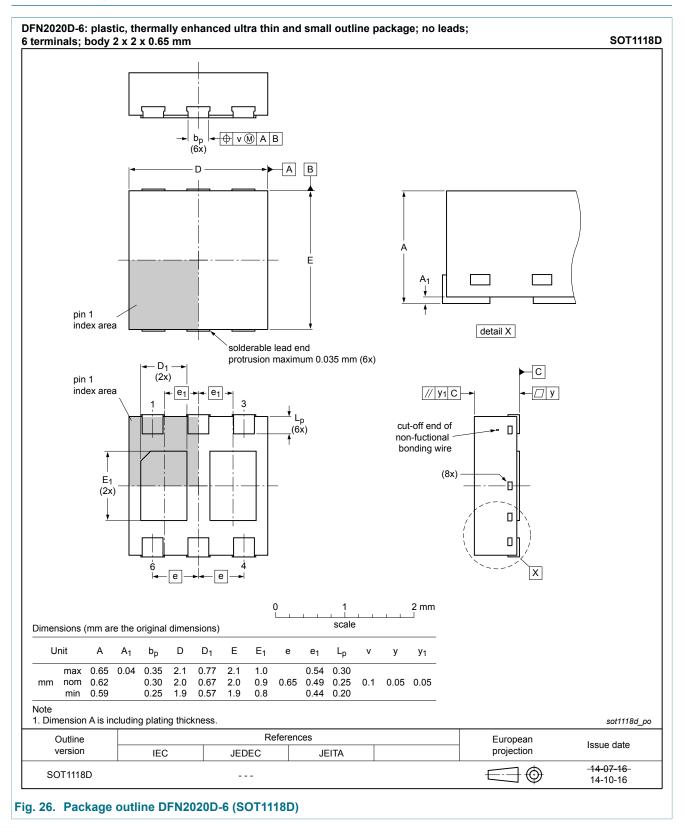


11.1 Quality information

This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard *Q101* - *Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

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12. Package outline

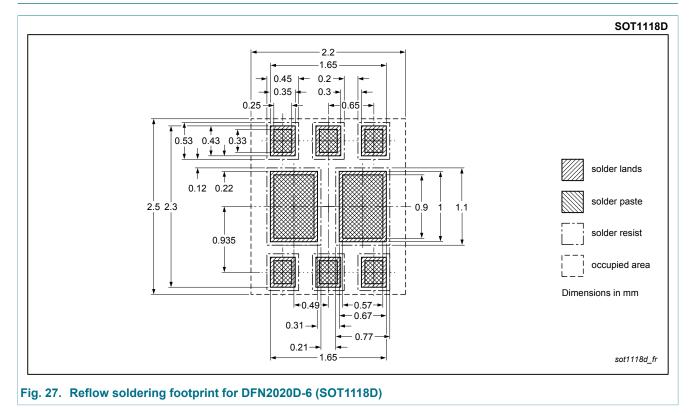


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13. Soldering



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14. Revision history

Table 8. Revision his	8. Revision history						
Data sheet ID	Release date	Data sheet status	Change notice	Supersedes			
PBSS4260PANPS v.1	20160204	Product data sheet	-	-			

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15. Legal information

15.1 Data sheet status

Document status [1][2]	Product status [<u>3]</u>	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

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