# PBSS5260PAP

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

**12 December 2012** 

**Product data sheet** 

## 1. General description

PNP/PNP low  $V_{CEsat}$  Breakthrough In Small Signal (BISS) transistor in a leadless medium power DFN2020-6 (SOT1118) Surface-Mounted Device (SMD) plastic package.

NPN/PNP complement: PBSS4260PANP. NPN/NPN complement: PBSS4260PAN.

## 2. Features and benefits

- Very low collector-emitter saturation voltage V<sub>CEsat</sub>
- High collector current capability I<sub>C</sub> and I<sub>CM</sub>
- High collector current gain h<sub>FE</sub> at high I<sub>C</sub>
- Reduced Printed-Circuit Board (PCB) requirements
- High efficiency due to less heat generation
- AEC-Q101 qualified

## 3. Applications

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

#### 4. Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit	
Per transistor	Per transistor							
V <sub>CEO</sub>	collector-emitter voltage	open base		-	-	-60	V	
I <sub>C</sub>	collector current			-	-	-2	Α	
I <sub>CM</sub>	peak collector current	single pulse; t <sub>p</sub> ≤ 1 ms		-	-	-3	Α	
Per transistor							,	
R <sub>CEsat</sub>	collector-emitter saturation resistance	$I_C$ = -1 A; $I_B$ = -100 mA; pulsed; $t_p \le 300 \ \mu s$ ; δ ≤ 0.02 ; $T_{amb}$ = 25 °C		-	-	250	mΩ	





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# **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	(TR1) TR2)
4	E2	emitter TR2	Transparent top view  DFN2020-6 (SOT1118)	
5	B2	base TR2		
6	C1	collector TR1		sym138
7	C1	collector TR1	5. 112020 3 (0011110)	
8	C2	collector TR2		

# **Ordering information**

Table 3. **Ordering information** 

Type number	Package					
	Name	Description	Version			
PBSS5260PAP	DFN2020-6	plastic thermal enhanced ultra thin small outline package; no leads; 6 terminals; body 2 x 2 x 0.65 mm	SOT1118			

#### **Marking** 7.

Table 4. **Marking codes** 

Type number	Marking code
PBSS5260PAP	2P

#### **Limiting values** 8.

Table 5. **Limiting values** 

PBSS5260PAP

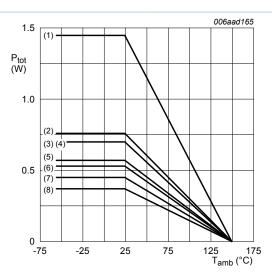
In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions		Min	Max	Unit		
Per transistor	Per transistor							
$V_{CBO}$	collector-base voltage	open emitter		-	-60	V		
V <sub>CEO</sub>	collector-emitter voltage	open base		-	-60	V		
V <sub>EBO</sub>	emitter-base voltage	open collector		-	-7	V		
I <sub>C</sub>	collector current			-	-2	Α		
I <sub>CM</sub>	peak collector current	single pulse; t <sub>p</sub> ≤ 1 ms		-	-3	Α		
I <sub>B</sub>	base current			-	-0.3	Α		

Symbol	Parameter	Conditions	N	Viin N	lax	Unit
I <sub>BM</sub>	peak base current	single pulse; t <sub>p</sub> ≤ 1 ms	-		1	Α
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> ≤ 25 °C	[1] -	- 3	370	mW
			[2] -	- 5	70	mW
			[3] -	- 5	30	mW
			[4] -	- 7	'00	mW
			<u>[5]</u> -	- 4	50	mW
			[6] -	- 7	'60	mW
			[7] -	- 7	'00	mW
			[8] -	- 1	450	mW
Per device						
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> ≤ 25 °C	[1] -	- 5	510	mW
			[2] -	- 7	'80	mW
			[3] -	- 7	'30	mW
			<u>[4]</u> -	- 9	960	mW
			<u>[5]</u> -	- 6	20	mW
			[6] -	- 1	040	mW
			[7] -	- 9	060	mW
			[8] -	- 2	2000	mW
T <sub>j</sub>	junction temperature		-	- 1	50	°C
T <sub>amb</sub>	ambient temperature		-	-55 1	50	°C
T <sub>stg</sub>	storage temperature			-65 1	50	°C

- [1] Device mounted on an FR4 PCB, single-sided 35 µm copper strip line, tin-plated and standard footprint.
- Device mounted on an FR4 PCB, single-sided 35 μm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.
- [3] Device mounted on 4-layer PCB 35 µm copper strip line, tin-plated and standard footprint.
- Device mounted on 4-layer PCB 35 µm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.
- [5] Device mounted on an FR4 PCB, single-sided 70 µm copper strip line, tin-plated and standard footprint.
- [6] Device mounted on an FR4 PCB, single-sided 70 µm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.
- [7] Device mounted on 4-layer PCB 70 µm copper strip line, tin-plated and standard footprint.
- [8] Device mounted on 4-layer PCB 70 μm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.

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- (1) 4-layer PCB 70 μm, mounting pad for collector 1 cm<sup>2</sup>
- (2) FR4 PCB 70 µm, mounting pad for collector 1 cm<sup>2</sup>
- (3) 4-layer PCB 70 µm, standard footprint
- (4) 4-layer PCB 35 μm, mounting pad for collector 1 cm<sup>2</sup>
- (5) FR4 PCB 35  $\mu m$ , mounting pad for collector 1 cm<sup>2</sup>
- (6) 4-layer PCB 35 µm, standard footprint
- (7) FR4 PCB 70 µm, standard footprint
- (8) FR4 PCB 35 µm, standard footprint

Fig. 1. Per transistor: power derating curves

### 9. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit	
Per transist	Per transistor							
R <sub>th(j-a)</sub>	thermal resistance		[1]	-	-	338	K/W	
	from junction to ambient		[2]	-	-	219	K/W	
ambient		[3]	-	-	236	K/W		
		[4]	-	-	179	K/W		
			[5]	-	-	278	K/W	
			[6]	-	-	164	K/W	
			[7]	-	-	179	K/W	
			[8]	-	-	86	K/W	
R <sub>th(j-sp)</sub>	thermal resistance from junction to solder point			-	-	30	K/W	

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Per device	(						
R <sub>th(j-a)</sub>	thermal resistance	in free air	[1]	-	-	245	K/W
	from junction to		[2]	-	-	160	K/W
	ambient		[3]	-	-	171	K/W
			[4]	-	-	130	K/W
			[5]	-	-	202	K/W
			[6]	-	-	120	K/W
		[7]	-	-	130	K/W	
			[8]	-	-	63	K/W

- [1] Device mounted on an FR4 PCB, single-sided 35 µm copper strip line, tin-plated and standard footprint.
- [2] Device mounted on an FR4 PCB, single-sided 35 μm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.
- [3] Device mounted on 4-layer PCB 35 µm copper strip line, tin-plated and standard footprint.
- [4] Device mounted on 4-layer PCB 35 µm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.
- [5] Device mounted on an FR4 PCB, single-sided 70 µm copper strip line, tin-plated and standard footprint.
- [6] Device mounted on an FR4 PCB, single-sided 70 μm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.
- [7] Device mounted on 4-layer PCB 70 µm copper strip line, tin-plated and standard footprint.
- [8] Device mounted on 4-layer PCB 70 µm copper strip line, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.

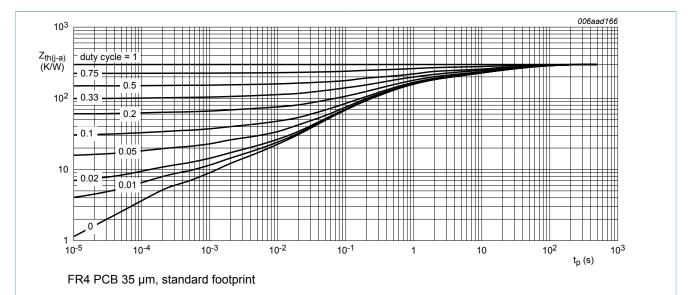


Fig. 2. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

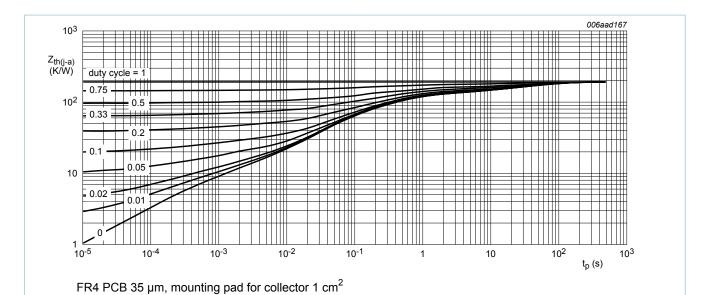


Fig. 3. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

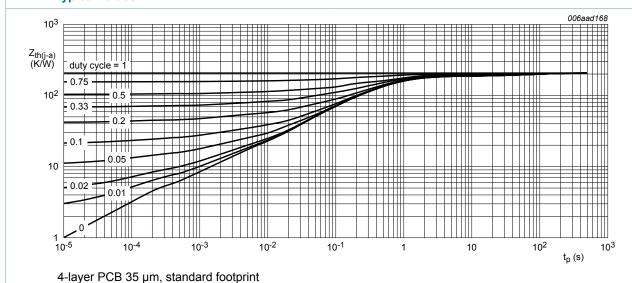


Fig. 4. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

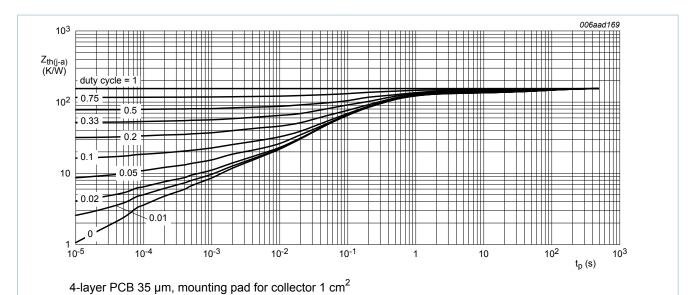


Fig. 5. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

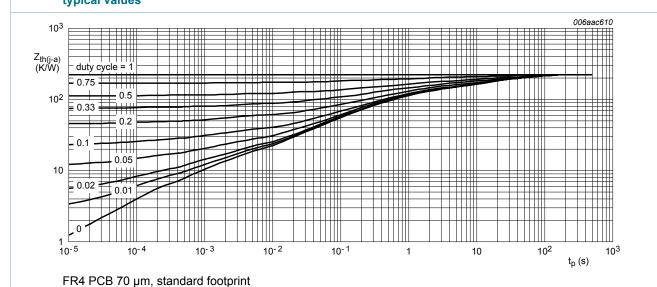


Fig. 6. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

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

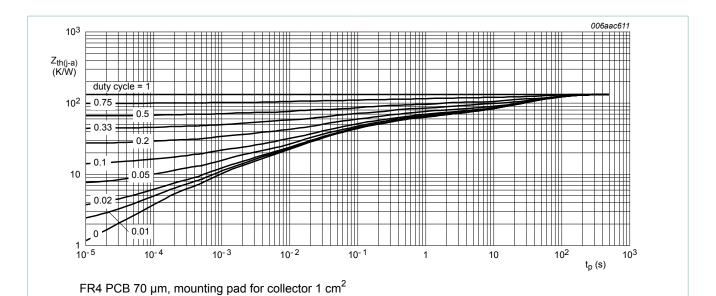


Fig. 7. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

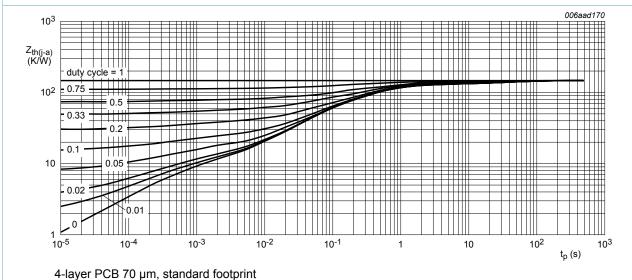


Fig. 8. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

Product data sheet

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

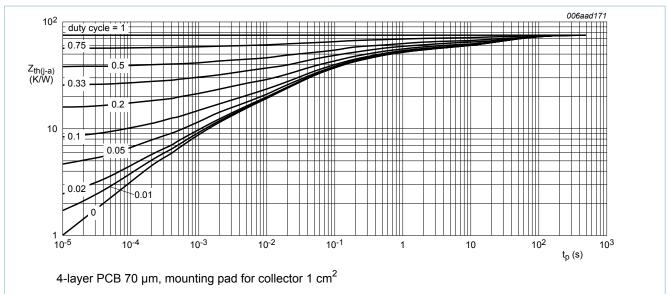


Fig. 9. Per transistor: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

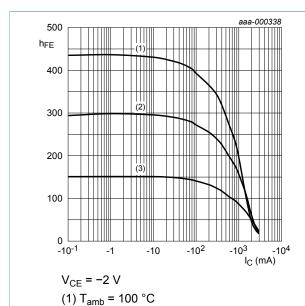
#### 10. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Per transis	tor					
I <sub>CBO</sub> c	collector-base cut-off	V <sub>CB</sub> = -48 V; I <sub>E</sub> = 0 A; T <sub>amb</sub> = 25 °C	-	-	-100	nA
	current	V <sub>CB</sub> = -48 V; I <sub>E</sub> = 0 A; T <sub>j</sub> = 150 °C	-	-	-50	μA
I <sub>EBO</sub>	emitter-base cut-off current	V <sub>EB</sub> = -5 V; I <sub>C</sub> = 0 A; T <sub>amb</sub> = 25 °C	-	-	-100	nA
h <sub>FE</sub> DC current gain	DC current gain	$V_{CE}$ = -2 V; $I_{C}$ = -100 mA; pulsed; $t_{p}$ ≤ 300 μs; δ ≤ 0.02; $T_{amb}$ = 25 °C	170	250	-	
		$V_{CE}$ = -2 V; $I_{C}$ = -500 mA; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 ; T_{amb}$ = 25 °C	140	200	-	
		$V_{CE}$ = -2 V; $I_{C}$ = -1 A; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 \ ; T_{amb}$ = 25 °C	110	155	-	
		$V_{CE}$ = -2 V; $I_{C}$ = -2 A; pulsed; $t_{p}$ ≤ 300 μs; δ ≤ 0.02 ; $T_{amb}$ = 25 °C	50	75	-	
V <sub>CEsat</sub>	collector-emitter saturation voltage	$I_C$ = -500 mA; $I_B$ = -50 mA; pulsed; $t_p \le 300$ μs; $\delta \le 0.02$ ; $T_{amb}$ = 25 °C	-	-100	-140	mV
		$I_{C}$ = -1 A; $I_{B}$ = -50 mA; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 \ ; \ T_{amb}$ = 25 °C	-	-220	-310	mV
		$I_{C}$ = -2 A; $I_{B}$ = -200 mA; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 ; T_{amb}$ = 25 °C	-	-365	-500	mV

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R <sub>CEsat</sub>	collector-emitter saturation resistance	$I_{C}$ = -1 A; $I_{B}$ = -100 mA; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 \ ; T_{amb}$ = 25 °C	-	-	250	mΩ
V <sub>BEsat</sub>	base-emitter saturation voltage	$I_C$ = -500 mA; $I_B$ = -50 mA; $T_{amb}$ = 25 °C	-	-	-1	V
		$I_{C}$ = -1 A; $I_{B}$ = -50 mA; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 \ ; T_{amb}$ = 25 °C	-	-	-1	V
		$I_{C}$ = -2 A; $I_{B}$ = -200 mA; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 \ ; T_{amb}$ = 25 °C	-	-	-1.2	V
$V_{BEon}$	base-emitter turn-on voltage	$V_{CE}$ = -2 V; $I_{C}$ = -0.5 A; pulsed; $t_{p} \le 300 \ \mu s; \ \delta \le 0.02 \ ; T_{amb}$ = 25 °C	-	-	-0.9	V
t <sub>d</sub>	delay time	$V_{CC}$ = -12.5 V; $I_{C}$ = -1 A; $I_{Bon}$ = -50 mA;	-	10	-	ns
t <sub>r</sub>	rise time	I <sub>Boff</sub> = 50 mA; T <sub>amb</sub> = 25 °C	-	80	-	ns
t <sub>on</sub>	turn-on time		-	90	-	ns
ts	storage time		-	195	-	ns
t <sub>f</sub>	fall time		-	75	-	ns
t <sub>off</sub>	turn-off time		-	270	-	ns
f <sub>T</sub>	transition frequency	$V_{CE}$ = -10 V; $I_{C}$ = -50 mA; f = 100 MHz; $T_{amb}$ = 25 °C	50	100	-	MHz
C <sub>c</sub>	collector capacitance	$V_{CB}$ = -10 V; $I_{E}$ = 0 A; $i_{e}$ = 0 A; f = 1 MHz; $T_{amb}$ = 25 °C	-	16	21	pF



(1) T<sub>amb</sub> = 100 C

(2)  $T_{amb}$  = 25 °C

(3)  $T_{amb} = -55 \, ^{\circ}C$ 

Fig. 10. DC current gain as a function of collector current; typical values

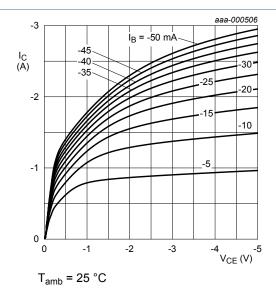


Fig. 11. Collector current as a function of collectoremitter voltage; typical values

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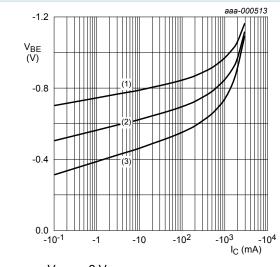
> -1.2  $V_{BEsat}$

> > -1.0

-0.8

-0.6

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$$V_{CE} = -2 V$$

(1) 
$$T_{amb} = -55 \, ^{\circ}C$$

(2) 
$$T_{amb} = 25 \, ^{\circ}C$$

(3) 
$$T_{amb}$$
 = 100 °C



Fig. 13. Base-emitter saturation voltage as a function of collector current; typical values

-10

 $-10^{2}$ 

-10<sup>4</sup>  $I_C$  (mA)

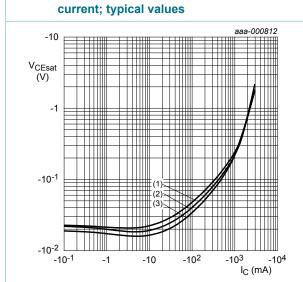


Fig. 12. Base-emitter voltage as a function of collector

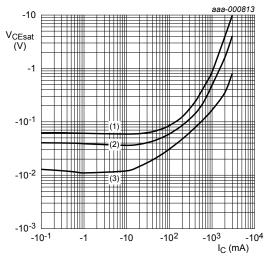
$$I_{\rm C}/I_{\rm B} = 20$$

(1) 
$$T_{amb} = 100 \, ^{\circ}C$$

(2) 
$$T_{amb}$$
 = 25 °C

$$(3) T_{amb} = -55 °C$$

Fig. 14. Collector-emitter saturation voltage as a function of collector current; typical values

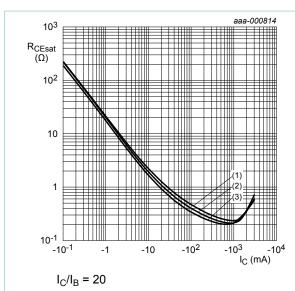


(1) 
$$I_C/I_B = 100$$

(2) 
$$I_C/I_B = 50$$

(3) 
$$I_C/I_B = 10$$

Fig. 15. Collector-emitter saturation voltage as a function of collector current; typical values

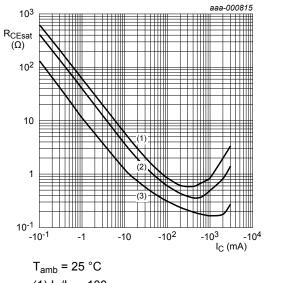


(1) 
$$T_{amb}$$
 = 100 °C

(2) 
$$T_{amb} = 25 \, ^{\circ}C$$

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

Fig. 16. Collector-emitter saturation resistance as a function of collector current; typical values



(1) 
$$I_C/I_B = 100$$

(2) 
$$I_C/I_B = 50$$

(3) 
$$I_C/I_B = 10$$

Fig. 17. Collector-emitter saturation resistance as a function of collector current; typical values

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

## 11. Test information

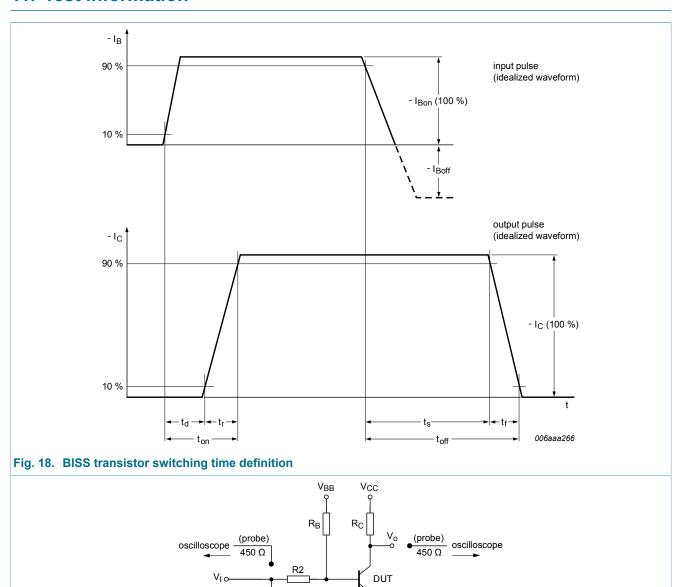


Fig. 19. Test circuit for switching times

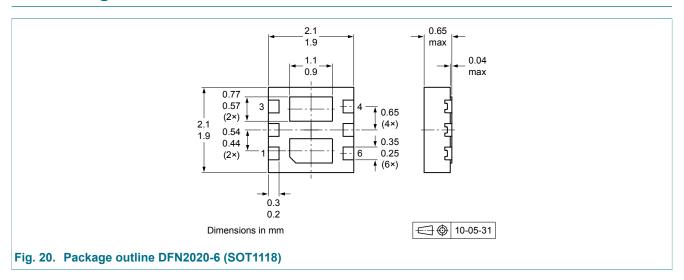
## 11.1 Quality information

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.

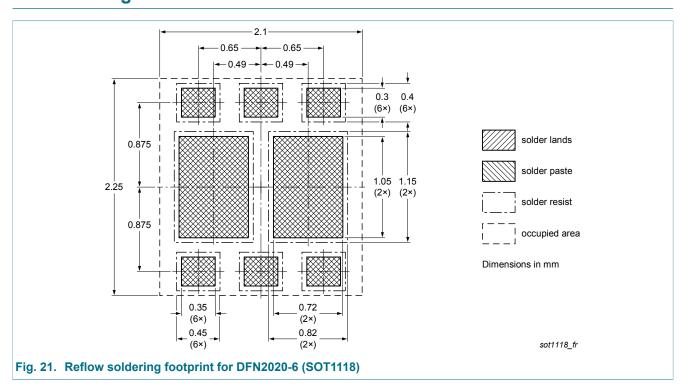
mgd624

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

# 12. Package outline



## 13. Soldering



# 14. Revision history

Table 8. Revision history

Data sheet ID	Release date	Data sheet status	Change notice	Supersedes		
PBSS5260PAP v.1	20121212	Product data sheet	-	-		

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

## 15. Legal information

#### 15.1 Data sheet status

Document status [1][2]	Product status [3]	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.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <a href="http://www.nxp.com">http://www.nxp.com</a>.

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