

PDTC143X/123J/143Z/114YQA series

50 V, 100 mA NPN resistor-equipped transistors

Rev. 1 — 30 October 2015

Product data sheet

1. Product profile

1.1 General description

100 mA NPN Resistor-Equipped Transistor (RET) family in a leadless ultra small DFN1010D-3 (SOT1215) Surface-Mounted Device (SMD) plastic package with visible and solderable side pads.

Table 1. Product overview

Type number	R1	R2	Package NXP	PNP complement
PDTC143XQA	4.7 k Ω	10 k Ω	DFN1010D-3 (SOT1215)	PDTA143XQA
PDTC123JQA	2.2 k Ω	47 k Ω		PDTA123JQA
PDTC143ZQA	4.7 k Ω	47 k Ω		PDTA143ZQA
PDTC114YQA	10 k Ω	47 k Ω		PDTA114YQA

1.2 Features and benefits

- 100 mA output current capability
- Built-in bias resistors
- Simplifies circuit design
- Reduces component count
- Reduced pick and place costs
- Low package height of 0.37 mm
- AEC-Q101 qualified
- Suitable for Automatic Optical Inspection (AOI) of solder joint

1.3 Applications

- Digital applications
- Cost saving alternative for BC847/BC857 series in digital applications
- Controlling IC inputs
- Switching loads

1.4 Quick reference data

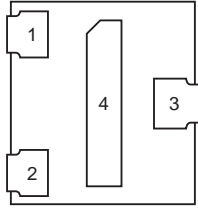
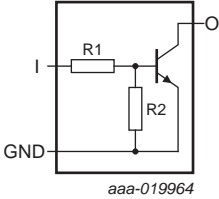
Table 2. Quick reference data

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CEO}	collector-emitter voltage	open base	-	-	50	V
I_O	output current		-	-	100	mA



2. Pinning information

Table 3. Pinning

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	I	input (base)	 <p>Transparent top view</p>	 <p>aaa-019964</p>
2	GND	GND (emitter)		
3	O	output (collector)		
4	O	output (collector)		

3. Ordering information

Table 4. Ordering information

Type number	Package		
	Name	Description	Version
PDTC143XQA	DFN1010D-3	plastic thermal enhanced ultra thin small outline package; no leads; 3 terminals; body: 1.1 × 1.0 × 0.37 mm	SOT1215
PDTC123JQA			
PDTC143ZQA			
PDTC114YQA			

4. Marking

Table 5. Marking codes

Type number	Marking code
PDTC143XQA	11 11 01
PDTC123JQA	10 11 11
PDTC143ZQA	11 00 11
PDTC114YQA	11 10 01

4.1 Binary marking code description

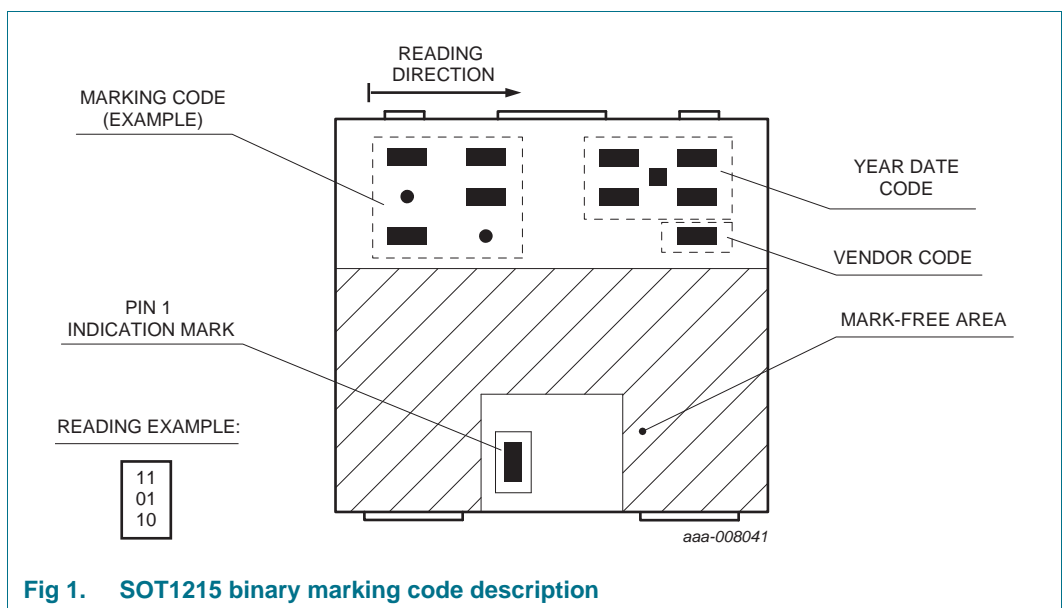


Fig 1. SOT1215 binary marking code description

5. Limiting values

Table 6. Limiting values

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

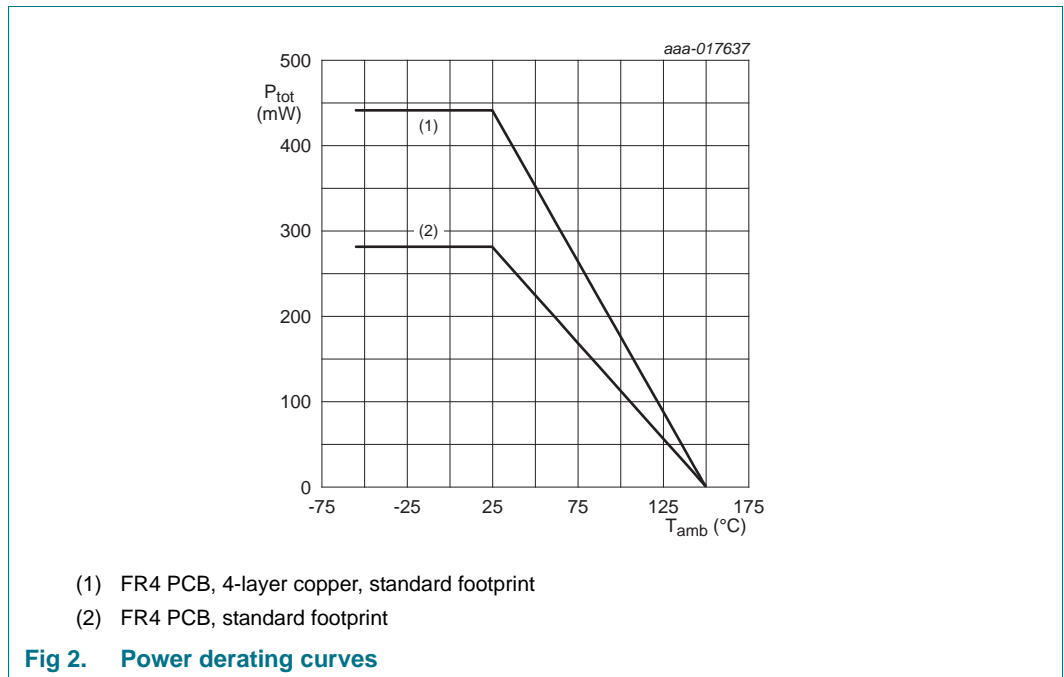
Symbol	Parameter	Conditions	Min	Max	Unit
V_{CBO}	collector-base voltage	open emitter	-	50	V
V_{CEO}	collector-emitter voltage	open base	-	50	V
V_{EBO}	emitter-base voltage				
	PDTC143XQA		-	7	V
	PDTC123JQA		-	5	V
	PDTC143ZQA		-	5	V
	PDTC114YQA		-	6	V

Table 6. Limiting values ...continued
In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit	
V _I	input voltage					
	PDTC143XQA		-7	+30	V	
	PDTC123JQA		-5	+12	V	
	PDTC143ZQA		-5	+30	V	
	PDTC114YQA		-6	+40	V	
I _O	output current		-	100	mA	
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C	[1]	-	280	mW
			[2]	-	440	mW
T _j	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 PCB, 4-layer copper, tin-plated and standard footprint.



6. Thermal characteristics

Table 7. Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	[1]	-	-	446	K/W
			[2]	-	-	284	K/W

- [1] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
- [2] Device mounted on an FR4 PCB, 4-layer copper, tin-plated and standard footprint.

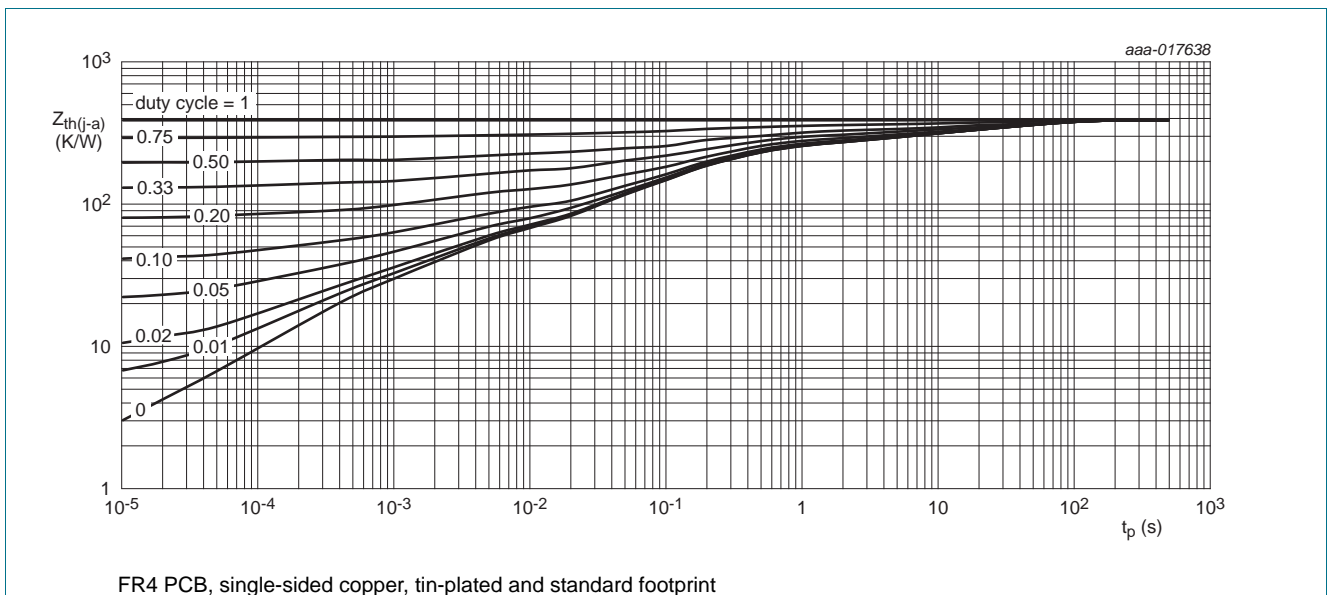


Fig 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

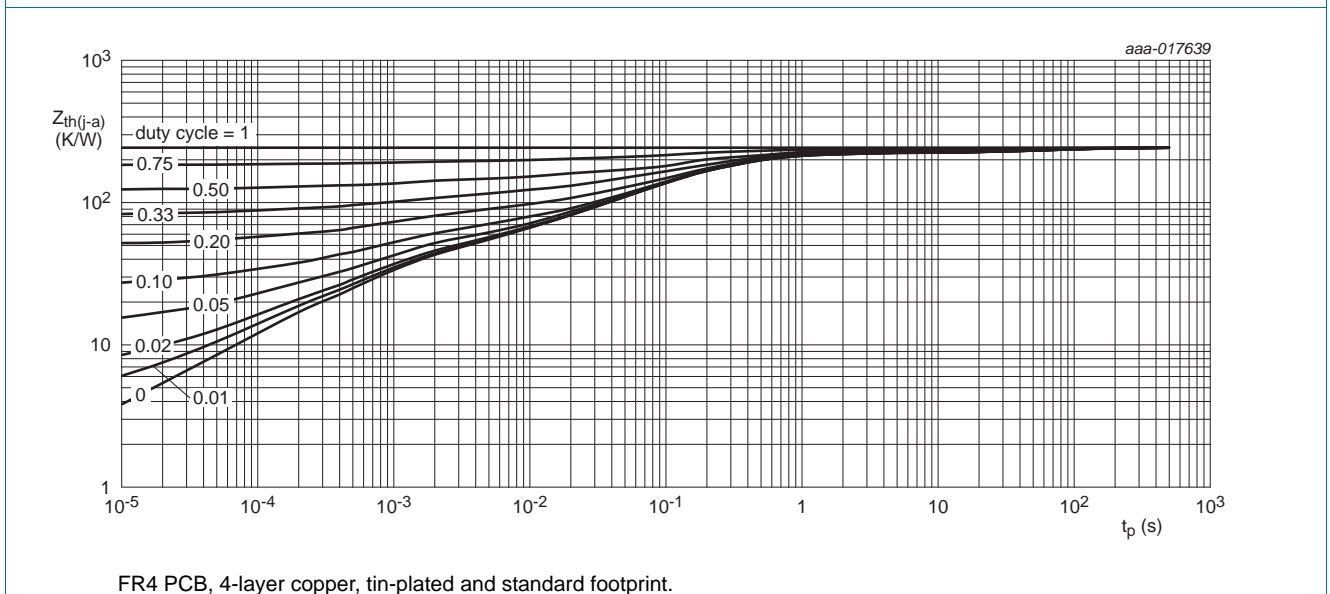


Fig 4. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

7. Characteristics

Table 8. Characteristics
T_{amb} = 25 °C unless otherwise specified.

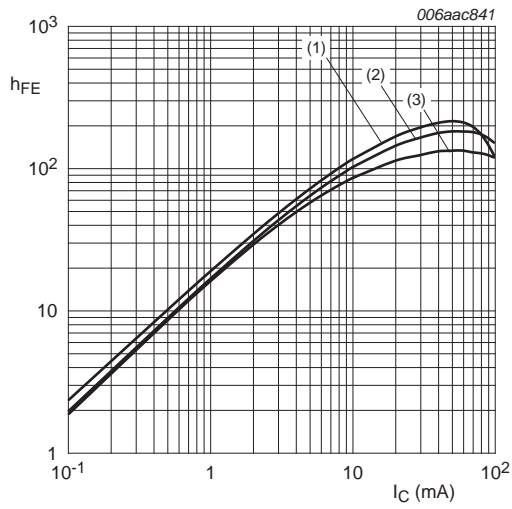
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
I _{CBO}	collector-base cut-off current	V _{CB} = 50 V; I _E = 0 A	-	-	100	nA
I _{CEO}	collector-emitter cut-off current	V _{CE} = 30 V; I _B = 0 A	-	-	1	μA
		V _{CE} = 30 V; I _B = 0 A; T _j = 150 °C	-	-	5	μA
I _{EBO}	emitter-base cut-off current					
	PDTC143XQA	V _{EB} = 5 V; I _C = 0 A	-	-	600	μA
	PDTC123JQA		-	-	180	μA
	PDTC143ZQA		-	-	170	μA
	PDTC114YQA		-	-	150	μA
h _{FE}	DC current gain					
	PDTC143XQA	V _{CE} = 5 V; I _C = 10 mA	50	-	-	
	PDTC123JQA	V _{CE} = 5 V; I _C = 10 mA	100	-	-	
	PDTC143ZQA	V _{CE} = 5 V; I _C = 10 mA	100	-	-	
	PDTC114YQA	V _{CE} = 5 V; I _C = 5 mA	100	-	-	
V _{CEsat}	collector-emitter saturation voltage					
	PDTC143XQA	I _C = 10 mA; I _B = 0.5 mA	-	-	100	mV
	PDTC123JQA	I _C = 5 mA; I _B = 0.25 mA	-	-	100	mV
	PDTC143ZQA	I _C = 5 mA; I _B = 0.25 mA	-	-	100	mV
	PDTC114YQA	I _C = 5 mA; I _B = 0.25 mA	-	-	100	mV
V _{I(off)}	off-state input voltage					
	PDTC143XQA	V _{CE} = 5 V; I _C = 100 μA	-	0.8	0.3	V
	PDTC123JQA		-	0.6	0.5	V
	PDTC143ZQA		-	0.6	0.5	V
	PDTC114YQA		-	0.7	0.5	V
V _{I(on)}	on-state input voltage					
	PDTC143XQA	V _{CE} = 0.3 V; I _C = 20 mA	2.5	1.5	-	V
	PDTC123JQA	V _{CE} = 0.3 V; I _C = 5 mA	1.1	0.75	-	V
	PDTC143ZQA	V _{CE} = 0.3 V; I _C = 5 mA	1.3	0.9	-	V
	PDTC114YQA	V _{CE} = 0.3 V; I _C = 1 mA	1.4	0.8	-	V
R1	bias resistor 1 (input)					
	PDTC143XQA		[1]			
	PDTC143XQA		3.3	4.7	6.1	kΩ
	PDTC123JQA		1.54	2.2	2.86	kΩ
	PDTC143ZQA		3.3	4.7	6.1	kΩ
	PDTC114YQA		7	10	13	kΩ

Table 8. Characteristics ...continued
 $T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
R2/R1	bias resistor ratio		[1]			
	PDTC143XQA		1.7	2.1	2.6	
	PDTC123JQA		17	21	26	
	PDTC143ZQA		8	10	12	
	PDTC114YQA		3.7	4.7	5.7	
C_c	collector capacitance	$V_{CB} = 10\text{ V}; I_E = i_e = 0\text{ A}; f = 1\text{ MHz}$	-	-	2.5	pF
f_T	transition frequency	$V_{CE} = 5\text{ V}; I_C = 10\text{ mA}; f = 100\text{ MHz}$	[2]	230	-	MHz

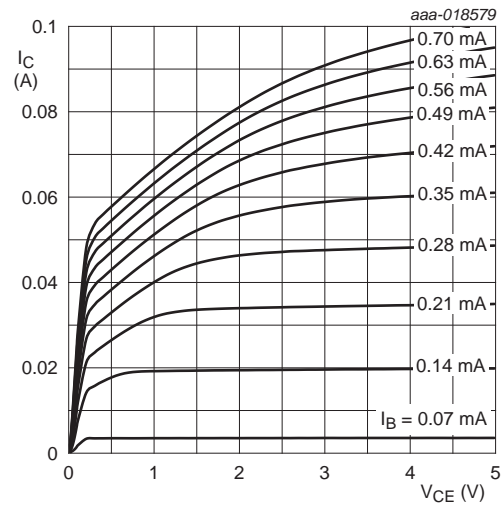
[1] See [Section 8 "Test information"](#) for resistor calculation and test conditions.

[2] Characteristics of built-in transistor.



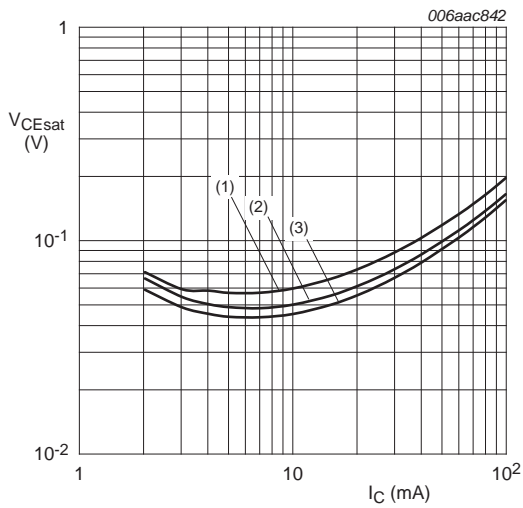
$V_{CE} = 5 \text{ V}$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 5. PDTC143XQA: DC current gain as a function of collector current; typical values



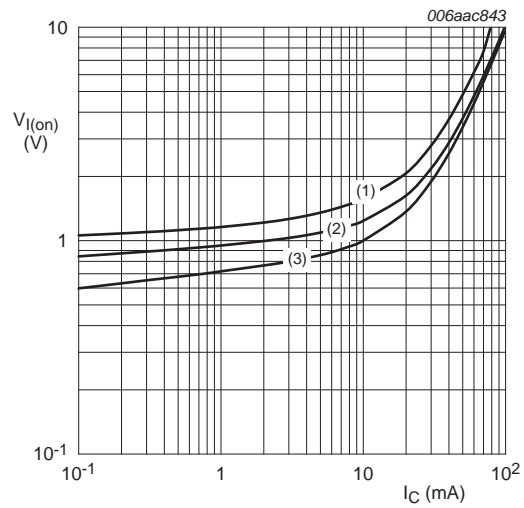
$T_{amb} = 25 \text{ }^\circ\text{C}$

Fig 6. PDTC143XQA: Collector current as a function of collector-emitter voltage; typical values



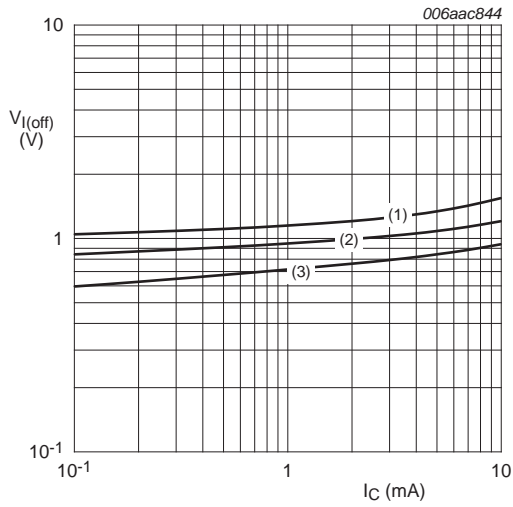
$I_C/I_B = 20$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 7. PDTC143XQA: Collector-emitter saturation voltage as a function of collector current; typical values



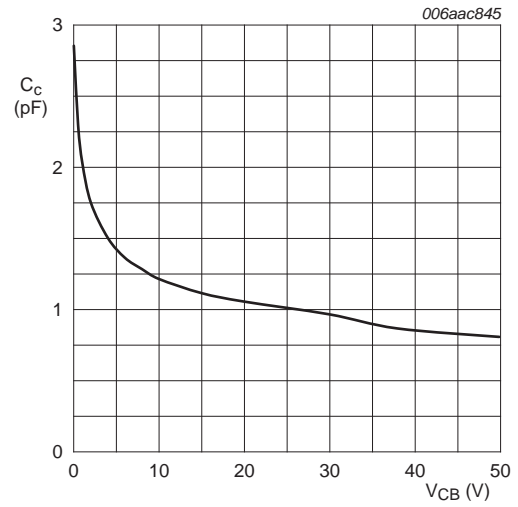
$V_{CE} = 0.3 \text{ V}$
 (1) $T_{amb} = -40 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = 100 \text{ }^\circ\text{C}$

Fig 8. PDTC143XQA: On-state input voltage as a function of collector current; typical values



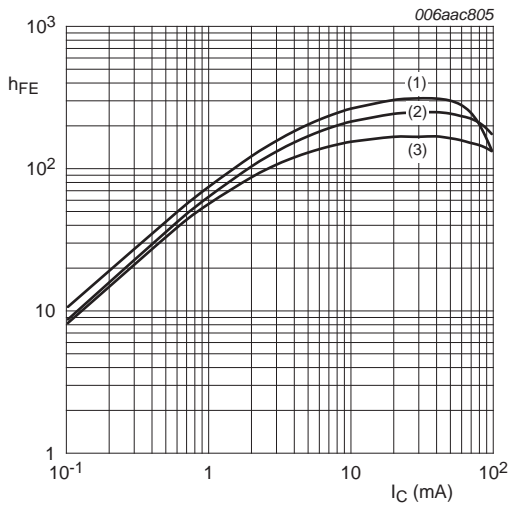
- $V_{CE} = 5\text{ V}$
- (1) $T_{amb} = -40\text{ °C}$
 - (2) $T_{amb} = 25\text{ °C}$
 - (3) $T_{amb} = 100\text{ °C}$

Fig 9. PDTC143XQA: Off-state input voltage as a function of collector current; typical values



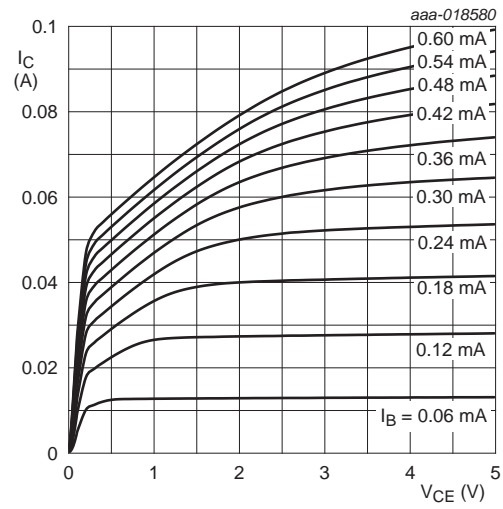
$f = 1\text{ MHz}; T_{amb} = 25\text{ °C}$

Fig 10. PDTC143XQA: Collector capacitance as a function of collector-base voltage; typical values



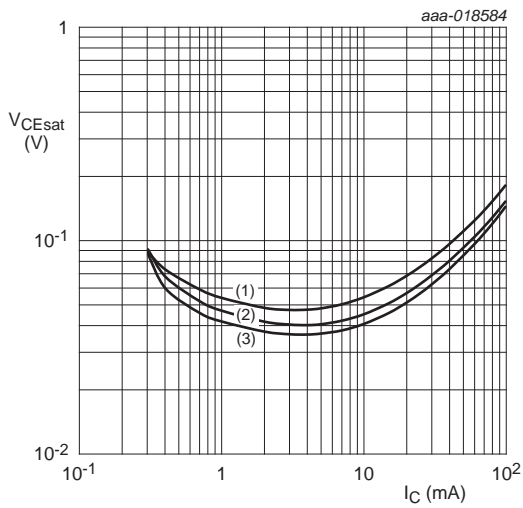
$V_{CE} = 5 \text{ V}$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 11. PDTC123JQA: DC current gain as a function of collector current; typical values



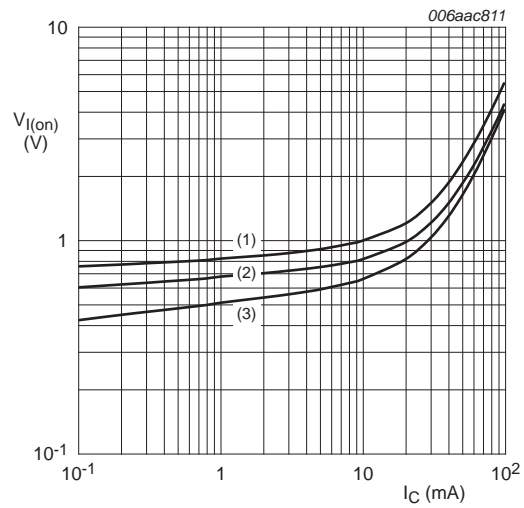
$T_{amb} = 25 \text{ }^\circ\text{C}$

Fig 12. PDTC123JQA: Collector current as a function of collector-emitter voltage; typical values



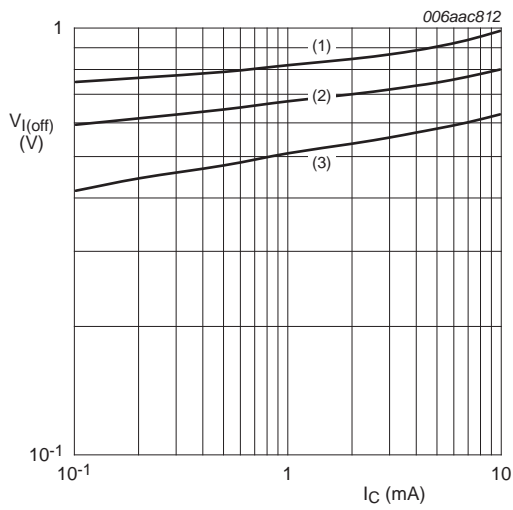
$I_C/I_B = 20$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 13. PDTC123JQA: Collector-emitter saturation voltage as a function of collector current; typical values



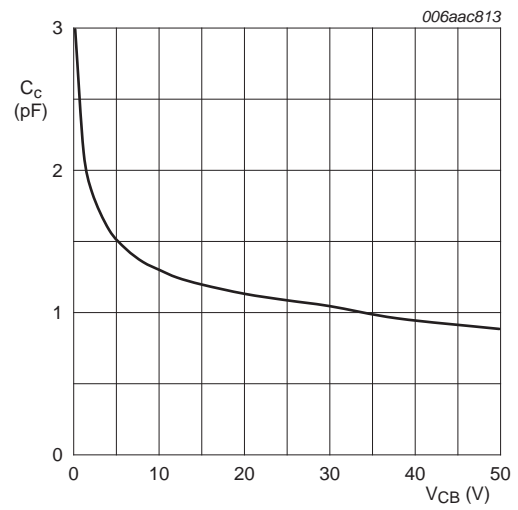
$V_{CE} = 0.3 \text{ V}$
 (1) $T_{amb} = -40 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = 100 \text{ }^\circ\text{C}$

Fig 14. PDTC123JQA: On-state input voltage as a function of collector current; typical values



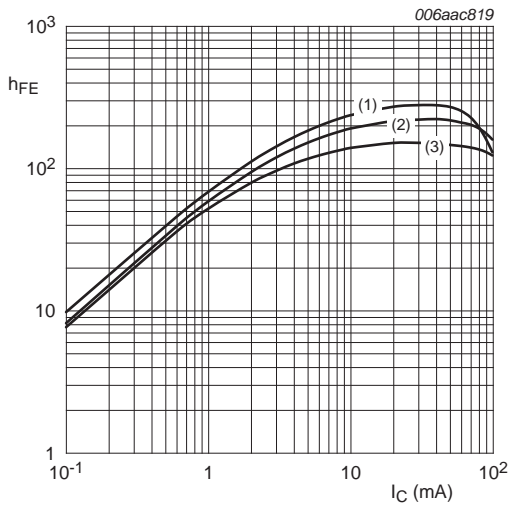
- $V_{CE} = 5\text{ V}$
- (1) $T_{amb} = -40\text{ }^\circ\text{C}$
 - (2) $T_{amb} = 25\text{ }^\circ\text{C}$
 - (3) $T_{amb} = 100\text{ }^\circ\text{C}$

Fig 15. PDTC123JQA: Off-state input voltage as a function of collector current; typical values



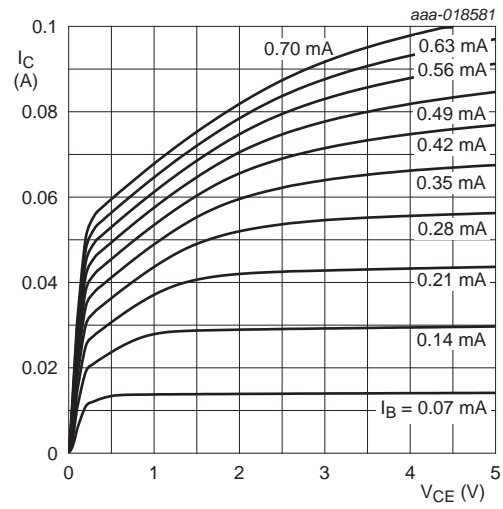
$f = 1\text{ MHz}; T_{amb} = 25\text{ }^\circ\text{C}$

Fig 16. PDTC123JQA: Collector capacitance as a function of collector-base voltage; typical values



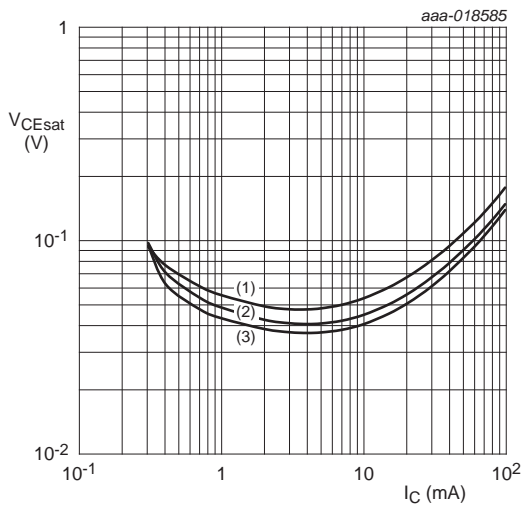
$V_{CE} = 5 \text{ V}$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 17. PDTC143ZQA: DC current gain as a function of collector current; typical values



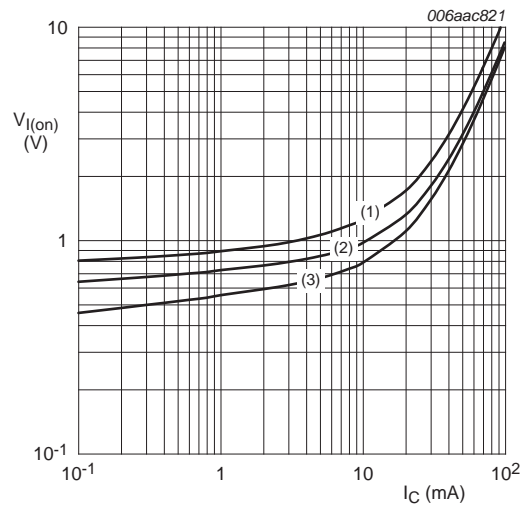
$T_{amb} = 25 \text{ }^\circ\text{C}$

Fig 18. PDTC143ZQA: Collector current as a function of collector-emitter voltage; typical values



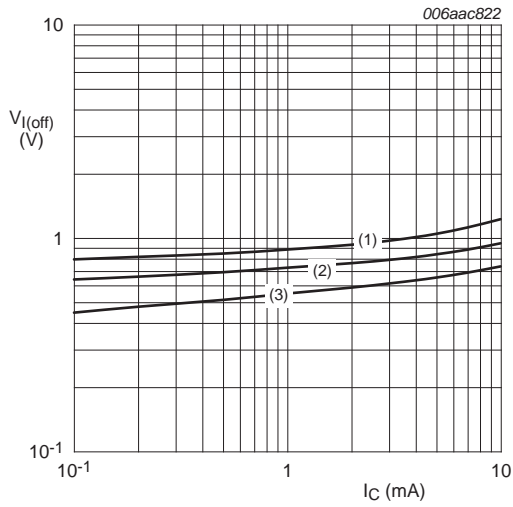
$I_C/I_B = 20$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 19. PDTC143ZQA: Collector-emitter saturation voltage as a function of collector current; typical values



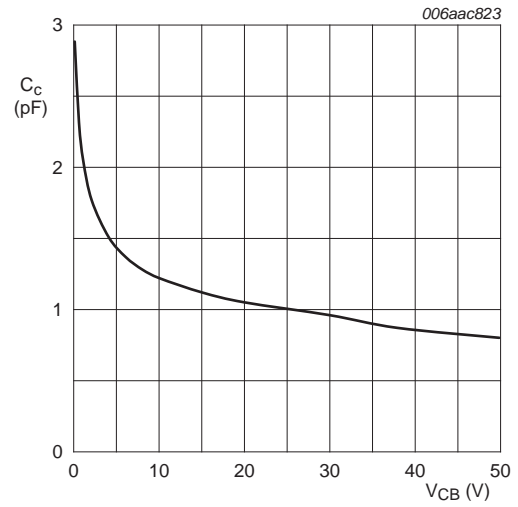
$V_{CE} = 0.3 \text{ V}$
 (1) $T_{amb} = -40 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = 100 \text{ }^\circ\text{C}$

Fig 20. PDTC143ZQA: On-state input voltage as a function of collector current; typical values



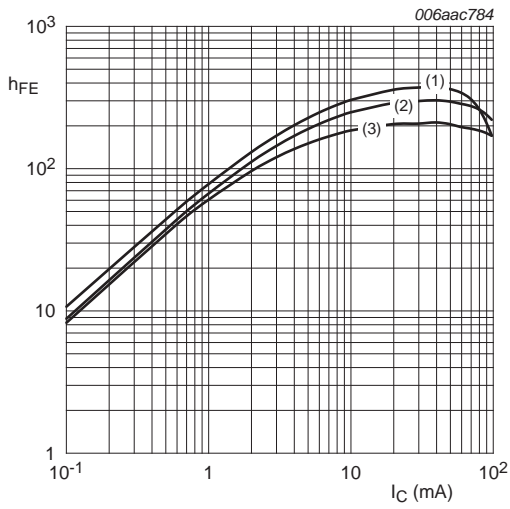
- $V_{CE} = 5\text{ V}$
- (1) $T_{amb} = -40\text{ }^\circ\text{C}$
 - (2) $T_{amb} = 25\text{ }^\circ\text{C}$
 - (3) $T_{amb} = 100\text{ }^\circ\text{C}$

Fig 21. PDTC143ZQA: Off-state input voltage as a function of collector current; typical values



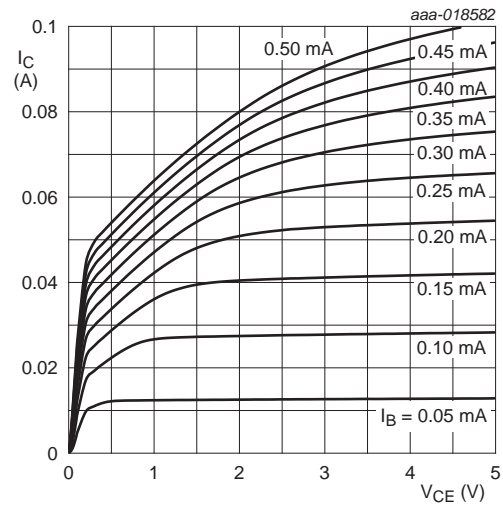
$f = 1\text{ MHz}; T_{amb} = 25\text{ }^\circ\text{C}$

Fig 22. PDTC143ZQA: Collector capacitance as a function of collector-base voltage; typical values



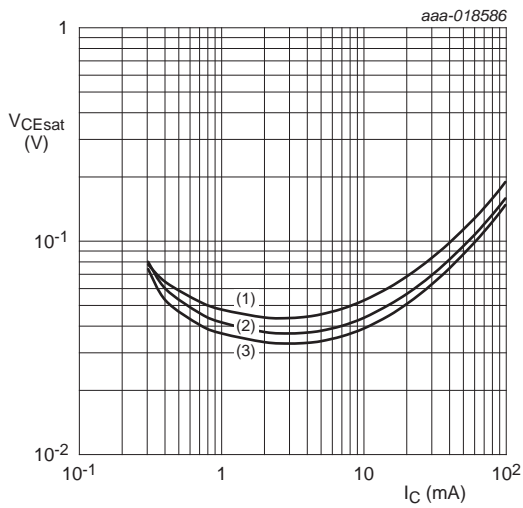
$V_{CE} = 5 \text{ V}$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 23. PDTC114YQA: DC current gain as a function of collector current; typical values



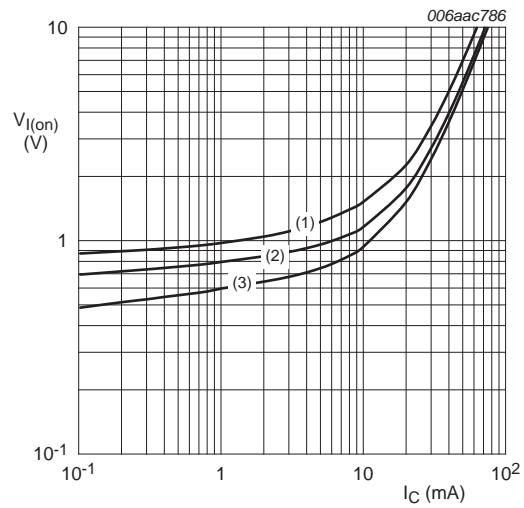
$T_{amb} = 25 \text{ }^\circ\text{C}$

Fig 24. PDTC114YQA: Collector current as a function of collector-emitter voltage; typical values



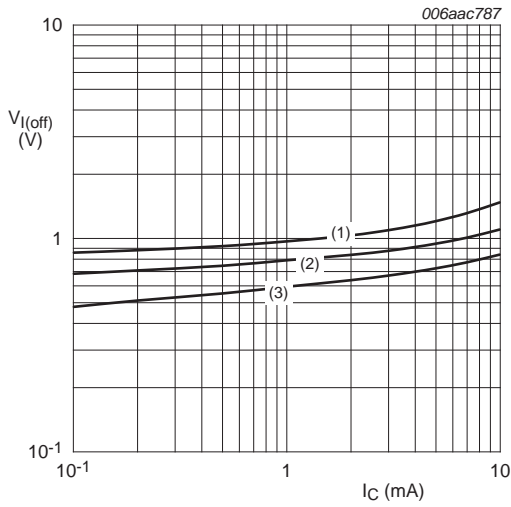
$I_C/I_B = 20$
 (1) $T_{amb} = 100 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = -40 \text{ }^\circ\text{C}$

Fig 25. PDTC114YQA: Collector-emitter saturation voltage as a function of collector current; typical values



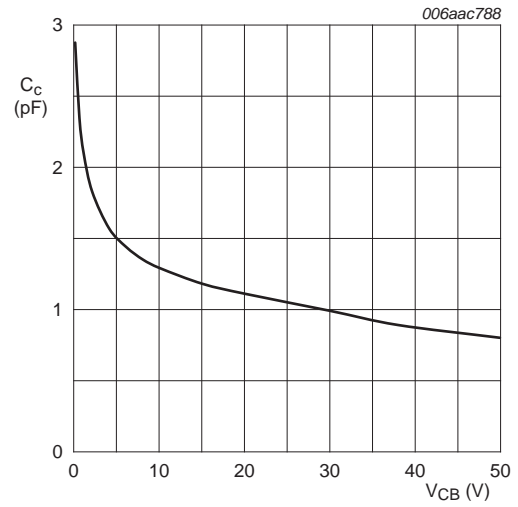
$V_{CE} = 0.3 \text{ V}$
 (1) $T_{amb} = -40 \text{ }^\circ\text{C}$
 (2) $T_{amb} = 25 \text{ }^\circ\text{C}$
 (3) $T_{amb} = 100 \text{ }^\circ\text{C}$

Fig 26. PDTC114YQA: On-state input voltage as a function of collector current; typical values



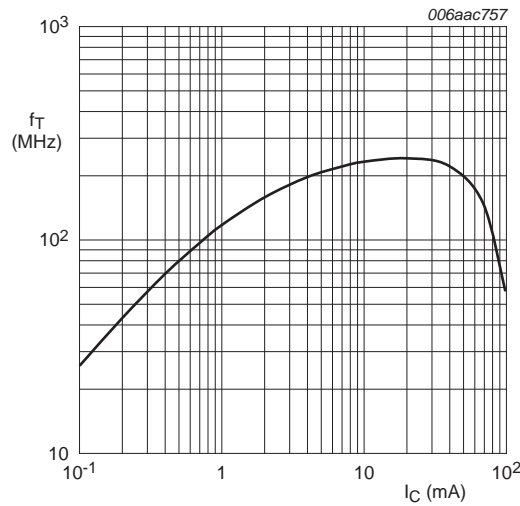
$V_{CE} = 5\text{ V}$
 (1) $T_{amb} = -40\text{ }^\circ\text{C}$
 (2) $T_{amb} = 25\text{ }^\circ\text{C}$
 (3) $T_{amb} = 100\text{ }^\circ\text{C}$

Fig 27. PDTC114YQA: Off-state input voltage as a function of collector current; typical values



$f = 1\text{ MHz}; T_{amb} = 25\text{ }^\circ\text{C}$

Fig 28. PDTC114YQA: Collector capacitance as a function of collector-base voltage; typical values



$V_{CE} = 5\text{ V}; T_{amb} = 25\text{ }^\circ\text{C}$

Fig 29. Transition frequency as a function of collector current; typical values of built-in transistor

8. Test information

8.1 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.

8.2 Resistor calculation

- Calculation of bias resistor 1 (R1):

$$R1 = \frac{V(I_{I2}) - V(I_{I1})}{I_{I2} - I_{I1}}$$

- Calculation of bias resistor ratio (R2/R1):

$$\frac{R2}{R1} = \frac{V(I_{I4}) - V(I_{I3})}{R1 \cdot (I_{I4} - I_{I3})} - 1$$

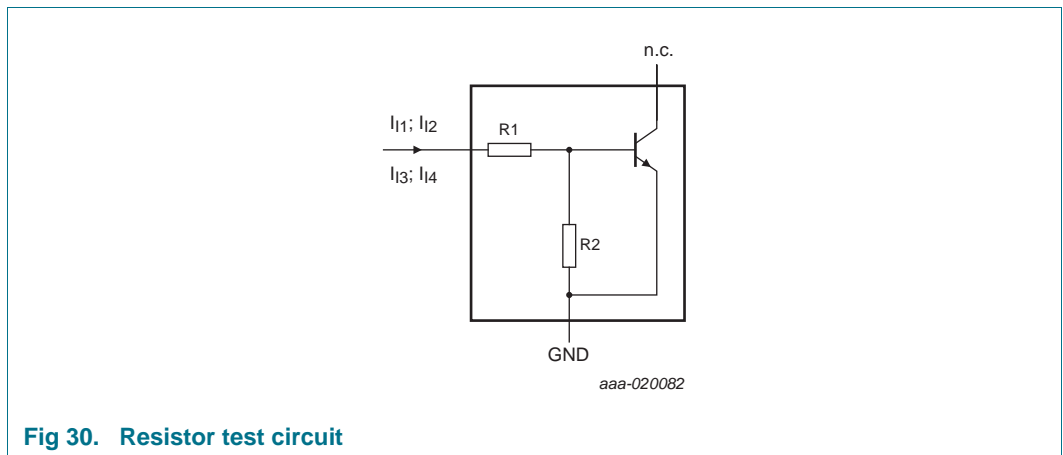


Fig 30. Resistor test circuit

8.3 Resistor test conditions

Table 9. Resistor test conditions

Type number	R1 (kΩ)	R2 (kΩ)	Test conditions			
			I _{I1}	I _{I2}	I _{I3}	I _{I4}
PDTC143XQA	4.7	10	350 μA	450 μA	-350 μA	-450 μA
PDTC123JQA	2.2	47	90 μA	140 μA	-55 μA	-105 μA
PDTC143ZQA	4.7	47	90 μA	140 μA	-55 μA	-105 μA
PDTC114YQA	10	47	90 μA	140 μA	-55 μA	-105 μA

9. Package outline

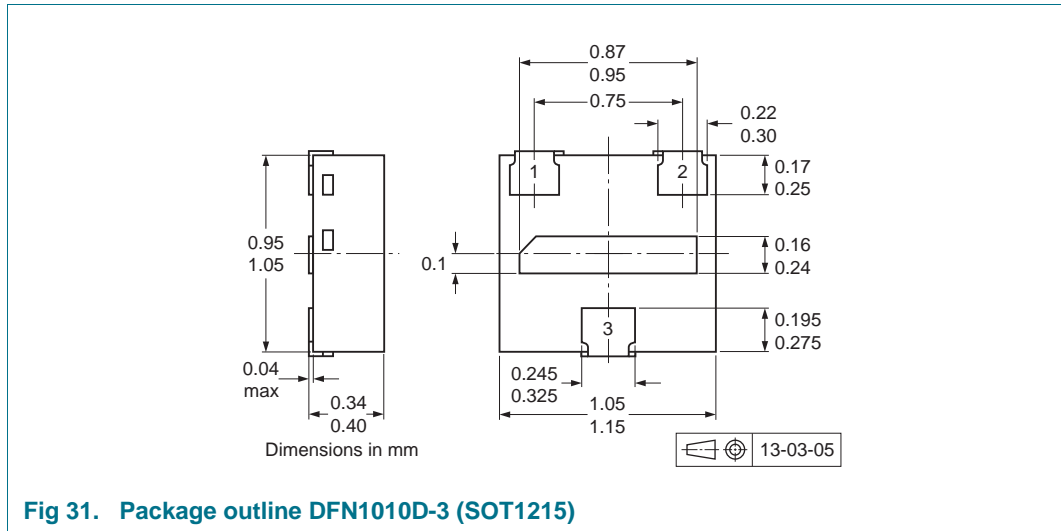
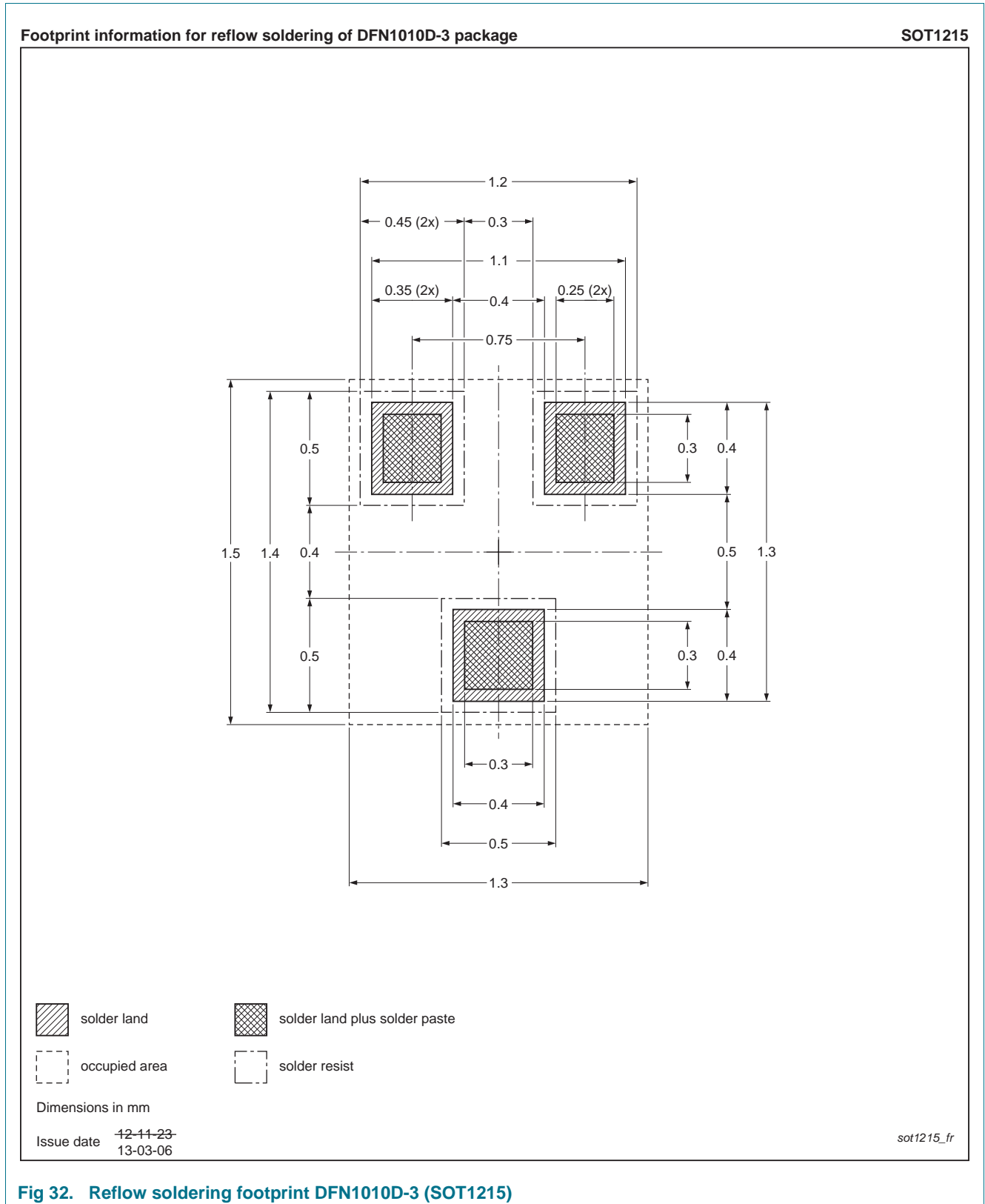


Fig 31. Package outline DFN1010D-3 (SOT1215)

10. Soldering



11. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PDTC143X_123J_143Z_114YQA_SER v.1	20151030	Product data sheet	-	-

12. Legal information

12.1 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.

[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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