# NXPS20H110C Dual power Schottky diode Rev. 2 — 24 May 2012

Product data sheet

#### **Product profile** 1.

### 1.1 General description

Dual common cathode power Schottky diode designed for high frequency switched mode power supplies in a SOT78 (TO-220AB) plastic package.

### 1.2 Features and benefits

- High junction temperature capability
- Low leakage current

- Negligible switching losses
- Optimised design to give low V<sub>F</sub> and high  $T_{j(max)}$

### 1.3 Applications

- DC to DC converters
- Freewheeling diode

- OR-ing diode
- Switched mode power supply rectifier

#### 1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{RRM}$	repetitive peak reverse voltage		-	-	110	V
I <sub>F(AV)</sub>	average forward current	square-wave pulse; $\delta = 0.5$ ; $T_j \le 163$ °C; per diode; see Figure 1; see Figure 2; see Figure 3	-	-	10	Α
$I_{O(AV)}$	average output current	square-wave pulse; $\delta = 0.5$ ; $T_{mb} \le 161$ °C; both diodes conducting	-	-	20	Α
Tj	junction temperature		-	-	175	°C
Static chara	acteristics					
V <sub>F</sub>	forward voltage	$I_F = 10 \text{ A}$ ; $T_j = 25 ^{\circ}\text{C}$ ; see Figure 6	-	-	0.77	V
		$I_F = 10 \text{ A}; T_j = 125 \text{ °C}; \text{ see } \frac{\text{Figure 6}}{}$	-	0.59	0.64	V
I <sub>R</sub>	reverse current	$V_R = 110 \text{ V}; T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 7}}{}$	-	2.5	6	μΑ
		$V_R = 110 \text{ V}; T_j = 125 \text{ °C}; \text{ see } \frac{\text{Figure 7}}{}$	-	1.5	6.5	mA



# 2. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	A1	anode 1		
2	K	cathode	mb	A1 + + A2
3	A2	anode 2	205	K
mb	К	mounting base; cathode	1 2 3	sym125
			SOT78 (TO-220AB)	

# 3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
NXPS20H110C	TO-220AB	plastic single-ended package; heatsink mounted; 1 mounting hole; 3-lead TO-220AB	SOT78

# 4. Limiting values

Table 4. Limiting values

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

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{RRM}$	repetitive peak reverse voltage		-	110	V
I <sub>F(AV)</sub>	average forward current	square-wave pulse; $\delta = 0.5$ ; $T_j \le 163$ °C; per diode; see Figure 1; see Figure 2; see Figure 3	-	10	Α
$I_{O(AV)}$	average output current	square-wave pulse; $\delta = 0.5$ ; $T_{mb} \le 161$ °C; both diodes conducting	-	20	Α
I <sub>FSM</sub>	non-repetitive peak forward current	sine-wave pulse; $t_p$ = 10 ms; $T_{j(init)}$ = 25 °C; see Figure 4	-	250	Α
T <sub>stg</sub>	storage temperature		-65	175	°C
T <sub>j</sub>	junction temperature		-	175	°C

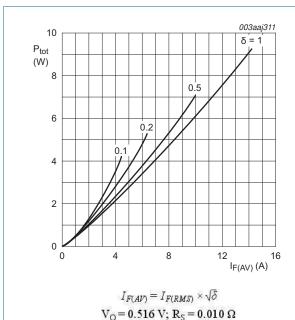


Fig 1. Forward power dissipation as a function of average forward current; square waveform; per diode; maximum values

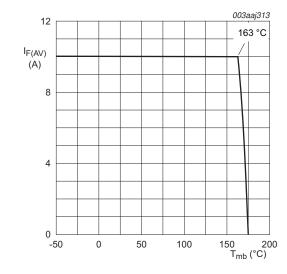


Fig 3. Average forward current as a function of mounting base temperature; per diode; maximum values

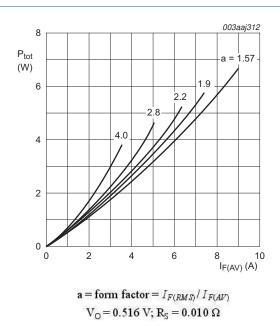


Fig 2. Forward power dissipation as a function of average forward current; sinusoidal waveform; per diode; maximum values

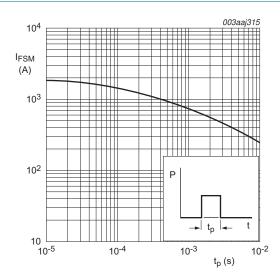


Fig 4. Non-repetitive peak forward current as a function of pulse width; square waveform; per diode; maximum values

# 5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$R_{th(j-mb)}$	thermal resistance from junction to mounting base	with heatsink compound; per diode; see Figure 5	-	-	1.6	K/W
		with heatsink compound; both diodes conducting	-	-	0.9	K/W
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	-	60	-	K/W

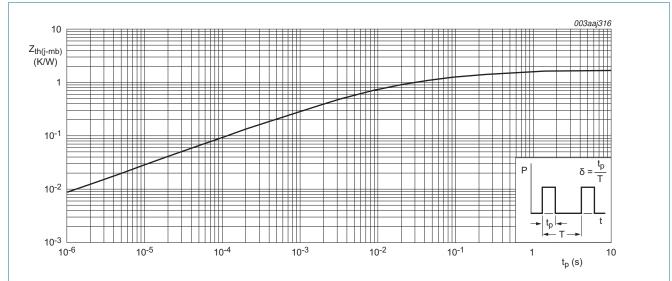
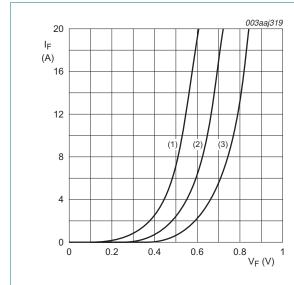


Fig 5. Transient thermal impedance from junction to mounting base as a function of pulse width; per diode

# 6. Characteristics

Table 6. Characteristics

Conditions	Min	Тур		
		קעי	Max	Unit
$I_F = 8 \text{ A}$ ; $T_j = 25 \text{ °C}$ ; see Figure 6	-	-	0.71	٧
$I_F = 10 \text{ A}; T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 6}}{\text{Minimum of 1}}$	-	-	0.77	V
$I_F = 16 \text{ A}; T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 6}}{\text{Figure 6}}$	-	-	0.81	V
$I_F = 20 \text{ A}; T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 6}}{\text{Minimum of 1}}$	-	-	0.88	V
$I_F = 8 \text{ A}; T_j = 125 \text{ °C}; \text{ see } \frac{\text{Figure 6}}{\text{Figure 6}}$	-	0.56	0.58	V
$I_F = 10 \text{ A}; T_j = 125 \text{ °C}; \text{ see } \frac{\text{Figure 6}}{}$	-	0.59	0.64	V
I <sub>F</sub> = 16 A; T <sub>j</sub> = 125 °C; see <u>Figure 6</u>	-	0.65	0.68	٧
I <sub>F</sub> = 20 A; T <sub>j</sub> = 125 °C; see <u>Figure 6</u>	-	0.67	0.73	٧
$V_R = 110 \text{ V}; T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 7}}{\text{Figure 7}}$	-	2.5	6	μΑ
$V_R = 110 \text{ V}; T_j = 125 ^{\circ}\text{C}; \text{ see } \frac{\text{Figure 7}}{}$	-	1.5	6.5	mA
ce $f = 1 \text{ MHz}$ ; $V_R = 10 \text{ V}$ ; $T_j = 25 \text{ °C}$ ; see Figure 8	-	250	-	pF
t	$I_{F} = 10 \text{ A; } T_{j} = 25 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 16 \text{ A; } T_{j} = 25 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 20 \text{ A; } T_{j} = 25 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 20 \text{ A; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 8 \text{ A; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 10 \text{ A; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 16 \text{ A; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 6}}$ $I_{F} = 20 \text{ A; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 7}}$ $V_{R} = 110 \text{ V; } T_{j} = 25 \text{ °C; see } \underline{\text{Figure 7}}$ $V_{R} = 110 \text{ V; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 7}}$ $V_{R} = 110 \text{ V; } T_{j} = 125 \text{ °C; see } \underline{\text{Figure 7}}$	$I_{F} = 10 \text{ A}; T_{j} = 25 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 16 \text{ A}; T_{j} = 25 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 20 \text{ A}; T_{j} = 25 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 8 \text{ A}; T_{j} = 125 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 10 \text{ A}; T_{j} = 125 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 16 \text{ A}; T_{j} = 125 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 20 \text{ A}; T_{j} = 125 \text{ °C}; \text{ see Figure 6} \qquad - \\ I_{F} = 20 \text{ A}; T_{j} = 125 \text{ °C}; \text{ see Figure 7} \qquad - \\ V_{R} = 110 \text{ V}; T_{j} = 25 \text{ °C}; \text{ see Figure 7} \qquad - \\ \text{nnce} \qquad \text{f} = 1 \text{ MHz}; V_{R} = 10 \text{ V}; T_{j} = 25 \text{ °C}; \qquad - \\ \text{nnce} \qquad \text{f} = 1 \text{ MHz}; V_{R} = 10 \text{ V}; T_{j} = 25 \text{ °C}; \qquad - \\ \text{nnce} \qquad \text{f} = 1 \text{ MHz}; V_{R} = 10 \text{ V}; T_{j} = 25 \text{ °C}; \qquad - \\ \text{nnce} \qquad \text{f} = 1 \text{ MHz}; V_{R} = 10 \text{ V}; T_{j} = 25 \text{ °C}; 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} T_j = 125 \text{ °C; see Figure 6} \\ I_F &= 10 \text{ A; } T_j = 125 \text{ °C; see Figure 6} \\ I_F &= 10 \text{ A; } T_j = 125 \text{ °C; see Figure 6} \\ I_F &= 20 \text{ A; } T_j = 125 \text{ °C; see Figure 6} \\ I_F &= 20 \text{ A; } T_j = 125 \text{ °C; see Figure 6} \\ V_R &= 110 \text{ V; } T_j = 25 \text{ °C; see Figure 7} \\ V_R &= 110 \text{ V; } T_j = 125 \text{ °C; see Figure 7} \\ \end{split}$	$\begin{split} I_F &= 10 \text{ A; } T_j = 25 \text{ °C; see } \underline{\text{Figure 6}} & - & - & 0.77 \\ I_F &= 16 \text{ A; } T_j = 25 \text{ °C; see } \underline{\text{Figure 6}} & - & - & 0.81 \\ I_F &= 20 \text{ A; } T_j = 25 \text{ °C; see } \underline{\text{Figure 6}} & - & - & 0.88 \\ I_F &= 8 \text{ A; } T_j = 125 \text{ °C; see } \underline{\text{Figure 6}} & - & 0.56 & 0.58 \\ I_F &= 10 \text{ A; } T_j = 125 \text{ °C; see } \underline{\text{Figure 6}} & - & 0.59 & 0.64 \\ I_F &= 16 \text{ A; } T_j = 125 \text{ °C; see } \underline{\text{Figure 6}} & - & 0.65 & 0.68 \\ I_F &= 20 \text{ A; } T_j = 125 \text{ °C; see } \underline{\text{Figure 6}} & - & 0.67 & 0.73 \\ I_F &= 110 \text{ V; } T_j = 25 \text{ °C; see } \underline{\text{Figure 7}} & - & 2.5 & 6 \\ V_R &= 110 \text{ V; } T_j = 125 \text{ °C; see } \underline{\text{Figure 7}} & - & 1.5 & 6.5 \\ \end{split}$



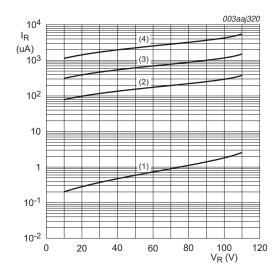
(1)  $T_j = 125$  °C; typical values;

(2) T<sub>i</sub> = 125 °C; maximum values;

(3)  $T_j = 25$  °C; maximum values;

 $V_O = 0.516 \text{ V}; R_S = 0.010 \Omega$ 

Fig 6. Forward current as a function of forward voltage; per diode



(1)  $T_j = 25$  °C; typical values;

(2)  $T_j = 100$  °C; typical values;

(3)  $T_j = 125$  °C; typical values;

(4)  $T_i = 150$  °C; typical values

Fig 7. Reverse leakage current as a function of reverse voltage; per diode; typical values

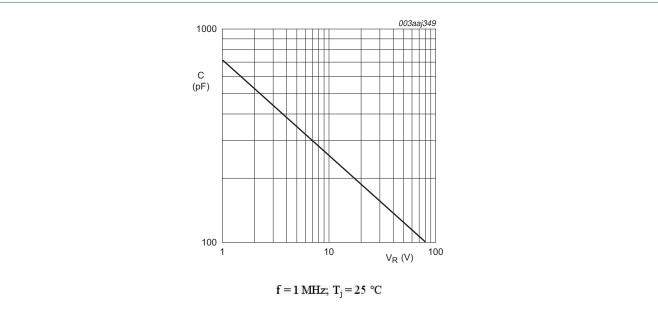


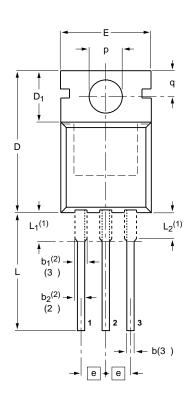
Fig 8. Junction capacitance as a function of applied reverse voltage; per diode; typical values

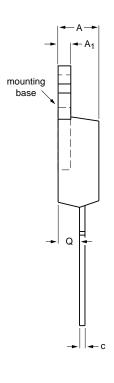
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SOT78

# 7. Package outline

Plastic single-ended package; heatsink mounted; 1 mounting hole; 3-lead TO-220AB





0 5 10 mm

### DIMENSIONS (mm are the original dimensions)

UNI	ГА	A <sub>1</sub>	b	b <sub>1</sub> (2)	b <sub>2</sub> (2)	С	D	D <sub>1</sub>	E	е	L	L <sub>1</sub> (1)	L <sub>2</sub> <sup>(1)</sup> max.	р	q	Q	
mm	4.7 4.1	1.40 1.25	0.9 0.6	1.6 1.0	1.3 1.0	0.7 0.4	16.0 15.2	6.6 5.9	10.3 9.7	2.54	15.0 12.8	3.30 2.79	3.0	3.8 3.5	3.0 2.7	2.6 2.2	

#### Notes

- 1. Lead shoulder designs may vary.
- 2. Dimension includes excess dambar.

OUTLINE	NE		ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT78		3-lead TO-220AB	SC-46		<del>08-04-23</del> 08-06-13

Fig 9. Package outline SOT78 (TO-220AB)

NXPS20H110C

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# 8. Revision history

### Table 7. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
NXPS20H110C v.2	20120524	Product data sheet	-	NXPS20H110C v.1
Modifications:	<ul><li>Status change</li><li>Various change</li></ul>	d from preliminary to produces to content.	t.	
NXPS20H110C v.1	20120420	Preliminary data shee	t -	-

# 9. Legal information

#### 9.1 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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NXPS20H110C

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# **NXPS20H110C**

### **Dual power Schottky diode**

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