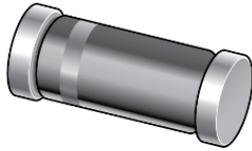


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PMLL4448

High-speed switching diodes

Single high-speed switching diodes, fabricated in planar technology, and encapsulated in small hermetically sealed glass SOD80C Surface-Mounted Device (SMD) packages.

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Features and benefits

- High switching speed: $t_{rr} \leq 4$ ns
- Reverse voltage: $V_R \leq 75$ V
- Repetitive peak reverse voltage: $V_{RRM} \leq 100$ V
- Repetitive peak forward current: $I_{FRM} \leq 450$ mA
- Small hermetically sealed glass SMD package

Applications

- High-speed switching
- Reverse polarity protection

Parametrics

Type number	Package version	Package name	Size (mm)	V_R [max] (V)	I_{FSM} [max] (A)	V_F [max] (mV)	I_R [max] (nA)	I_{FRM} (mA)	Configuration	t_{rr} [max] (ns)	I_F [max] (mA)	C_d [max] (pF)
PMLL4448	SOD80C	LLDS; MiniMelf	3.5 x 1.5	75	4	1000@ $I_F=100$ mA	25@ $V_R=20$ V	450	single	4	200	4

Package

Type number	Orderable part number, (Ordering code (12NC))	Status	Marking	Package	Package information	Reflow-/Wave soldering	Packing
PMLL4448	PMLL4448,135 (9338 347 60135)	Active	Standard Marking		SOD80C	REFLOW_BG-BD-1 WAVE_BG-BD-1	Reel 13" or 11 1/2" Q1/T1
	PMLL4448,115 (9338 347 60115)	Active	Standard Marking	LLDS; MiniMelf (SOD80C)			Reel 7" Q1/T1 or Q2/T3

Environmental information

Type number	Orderable part number	Chemical content	RoHS	RHF-indicator
PMLL4448	PMLL4448,135	PMLL4448		
PMLL4448	PMLL4448,115	PMLL4448		

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SOD80C

glass, hermetically sealed glass surface-mounted package; 2 connectors; 3.5 mm x 1.5 mm body

27 May 2022

Package information

1. Package summary

Terminal position code	E (end)
Package type descriptive code	LLDS; MiniMelf
Package type industry code	LLDS; MiniMelf
Package style descriptive code	MELF (metal electrode leadless face)
Package body material type	L (glass)
IEC package outline code	100H01
Mounting method type	S (surface mount)
Number of package outline detail graphic references	0
Issue date	16-3-2006
Manufacturer package code	SOD80
Footprint dimensions (mm)	4.55 x 2.25
Footprint area (mm²)	10.24

Table 1. Package summary

Symbol	Parameter	Min	Typ	Nom	Max	Unit
D	package length	3.3	-	3.5	3.7	mm
ΦD	package diameter	1.45	-	1.5	1.6	mm
n ₂	actual quantity of termination	-	-	2	-	

glass, hermetically sealed glass surface-mounted package; 2 connectors; 3.5 mm x 1.5 mm body

2. Package outline

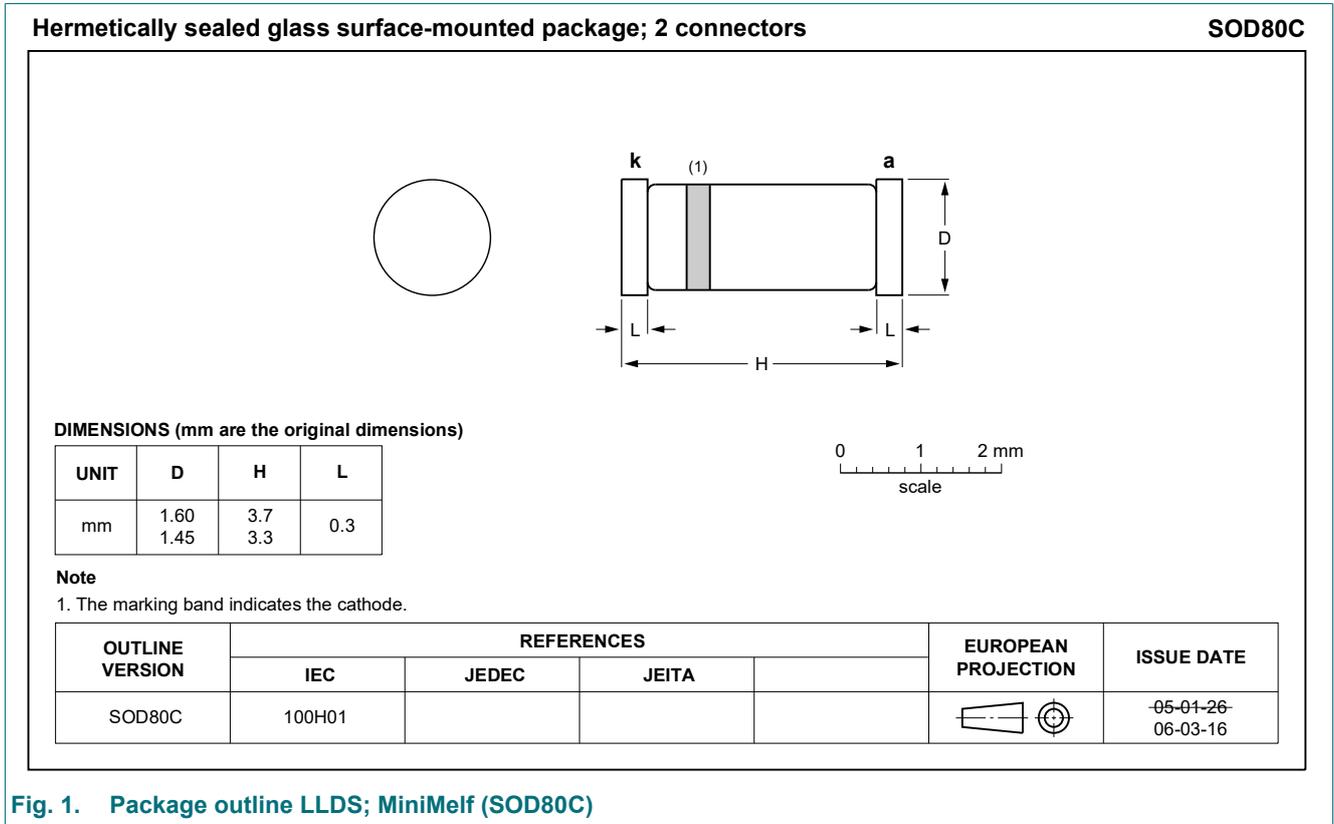


Fig. 1. Package outline LLDS; MiniMelf (SOD80C)

3. Soldering

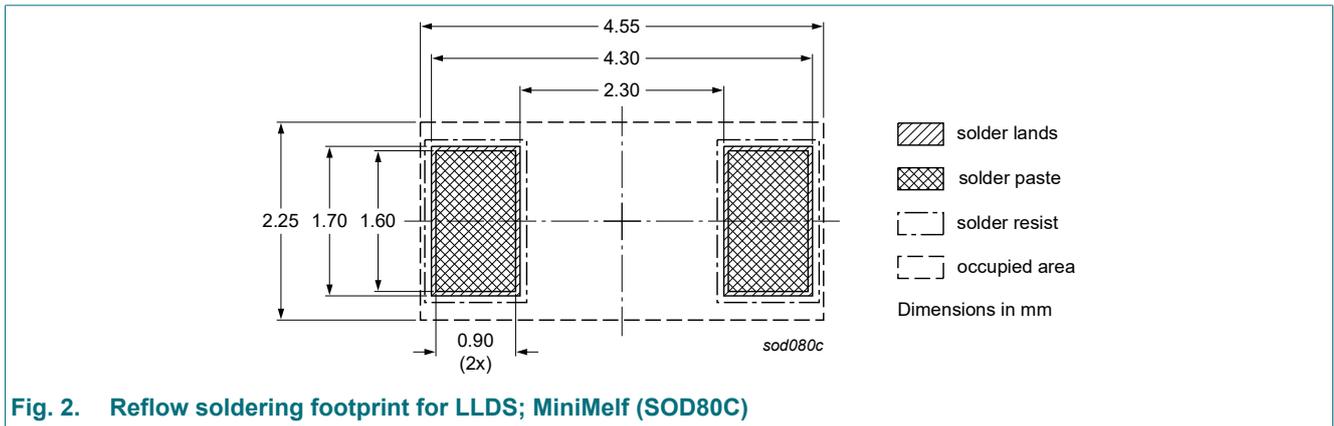


Fig. 2. Reflow soldering footprint for LLDS; MiniMelf (SOD80C)

glass, hermetically sealed glass surface-mounted package; 2 connectors; 3.5 mm x 1.5 mm body

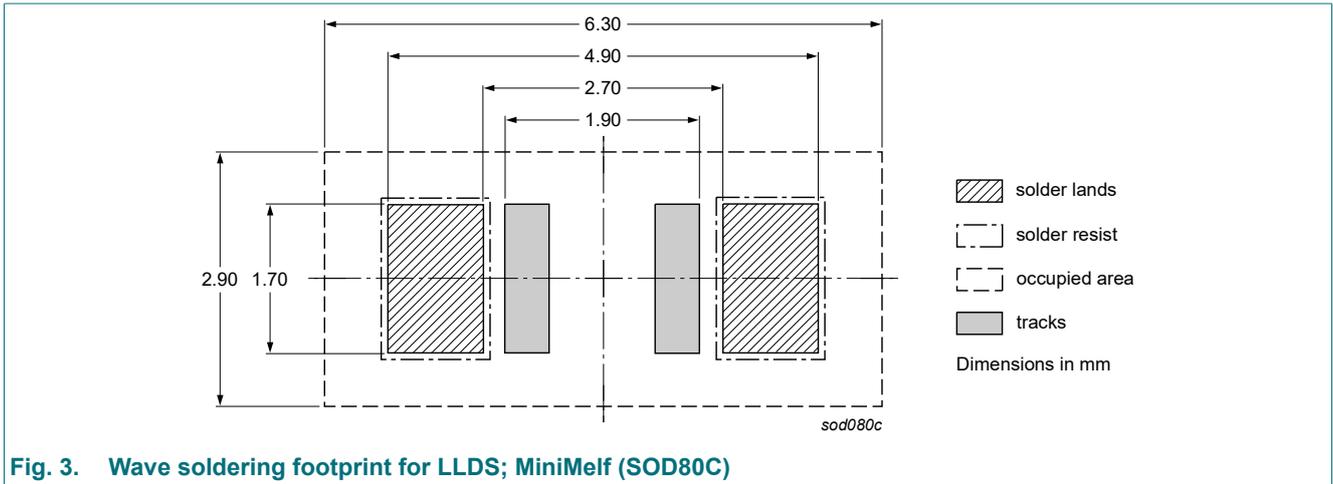


Fig. 3. Wave soldering footprint for LLDS; MiniMelf (SOD80C)

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glass, hermetically sealed glass surface-mounted package; 2 connectors; 3.5 mm x 1.5 mm body

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