



SOT8038-1

plastic thermal enhanced surface mounted package; mini leads; 8 terminals; pitch 1.27 mm; 6 x 5 x 1.0 mm body

11 July 2024

Package information

1. Package summary

Terminal position code	B (bottom)
Package type descriptive code	MLPAK56
Package type industry code	MLPAK56
Package style descriptive code	HSO (thermal enhanced small outline)
Package body material type	P (plastic)
Mounting method type	S (surface mount)
Number of package outline detail graphic references	0
Issue date	28-6-2024
Manufacturer package code	SOT8038
Footprint dimensions (mm)	7.35 x 5.45
Footprint area (mm²)	40.06
Package dimensions including leads (l x w) (mm)	6.15 x 5.15
Package area (mm²)	31.67

Table 1. Package summary

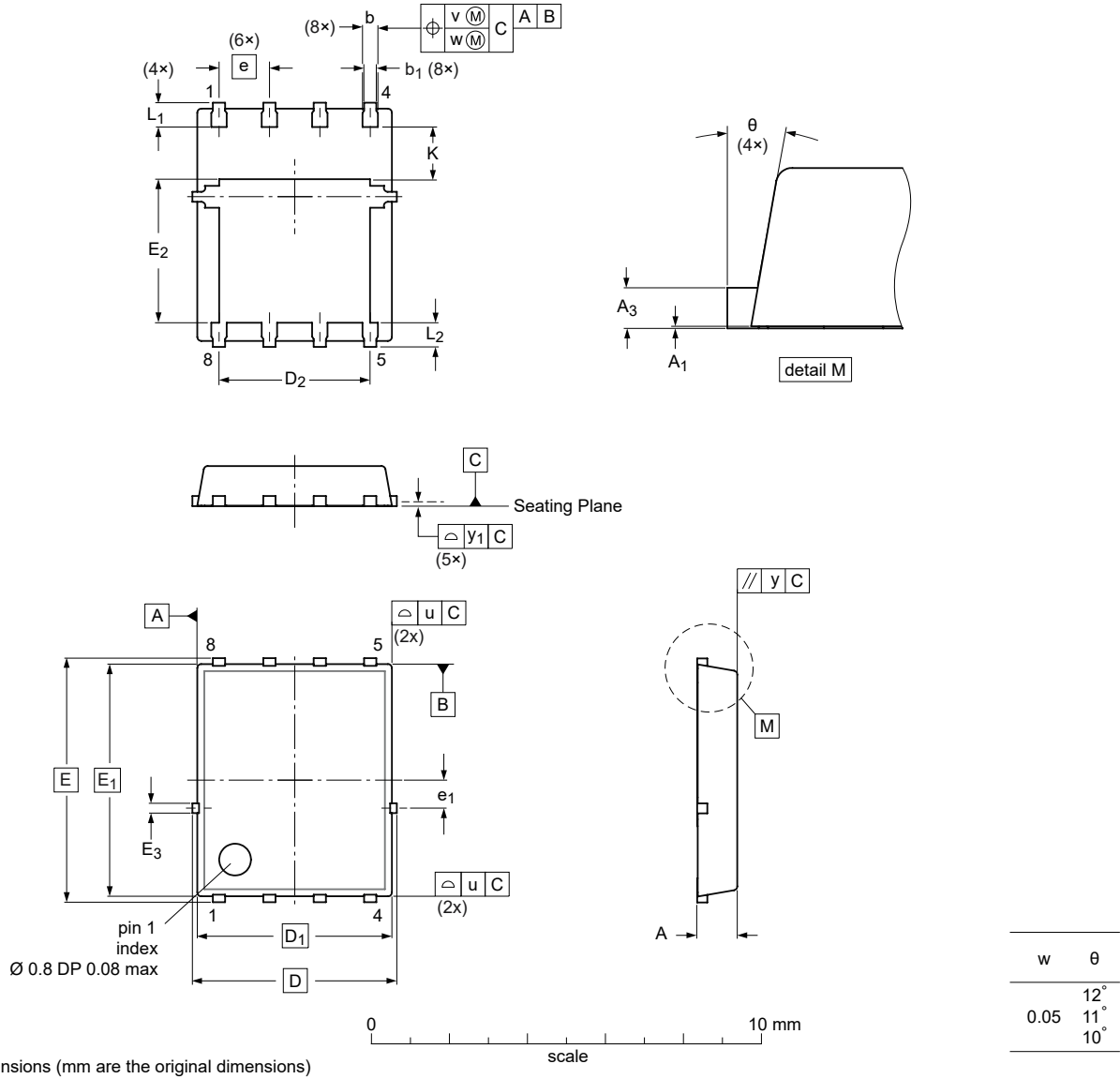
Symbol	Parameter	Min	Typ	Nom	Max	Unit
D	package length	5	-	5.15	5.3	mm
E	package width	6	-	6.15	6.3	mm
A	seated height	0.95	-	1	1.05	mm
e	nominal pitch	-	-	1.27	-	mm
e ₁	minimal pitch	-	-	0.7	-	mm
n ₂	actual quantity of termination	-	-	8	-	

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2. Package outline

MLPAK56: plastic thermal enhanced surface mounted package; mini leads; 8 terminals; pitch 1.27 mm; 6 x 5 x 1.0 mm body

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Dimensions (mm are the original dimensions)

Unit ⁽¹⁾	A	A ₁	A ₃	b	b ₁	D	D ₁	D ₂	E	E ₁	E ₂	E ₃	e	e ₁	K	L ₁	L ₂	y	y ₁	u	v	
max	1.05	0.05	0.254	0.51	0.41	5.30	5	3.9	6.30	6	3.76	0.33	1.27	0.7	1.3	0.71	0.71					
nom	1.0		REF	0.41	0.31	5.15	BSC	3.8	6.15	BSC	3.66	0.28	BSC	REF	REF	0.61	0.61	0.1	0.08	0.1	0.1	
min	0.95	0		0.31	0.21	5.00		3.7	6.00		3.56	0.23	BSC	REF	REF	0.51	0.51					

Note

1. Dimension b applies to metallized terminal and is measured between 0.25 mm and 0.30 mm from terminal tip.

sot8038-1_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT8038-1						24-06-28

Fig. 1. Package outline MLPAK56 (SOT8038-1)

3. Soldering

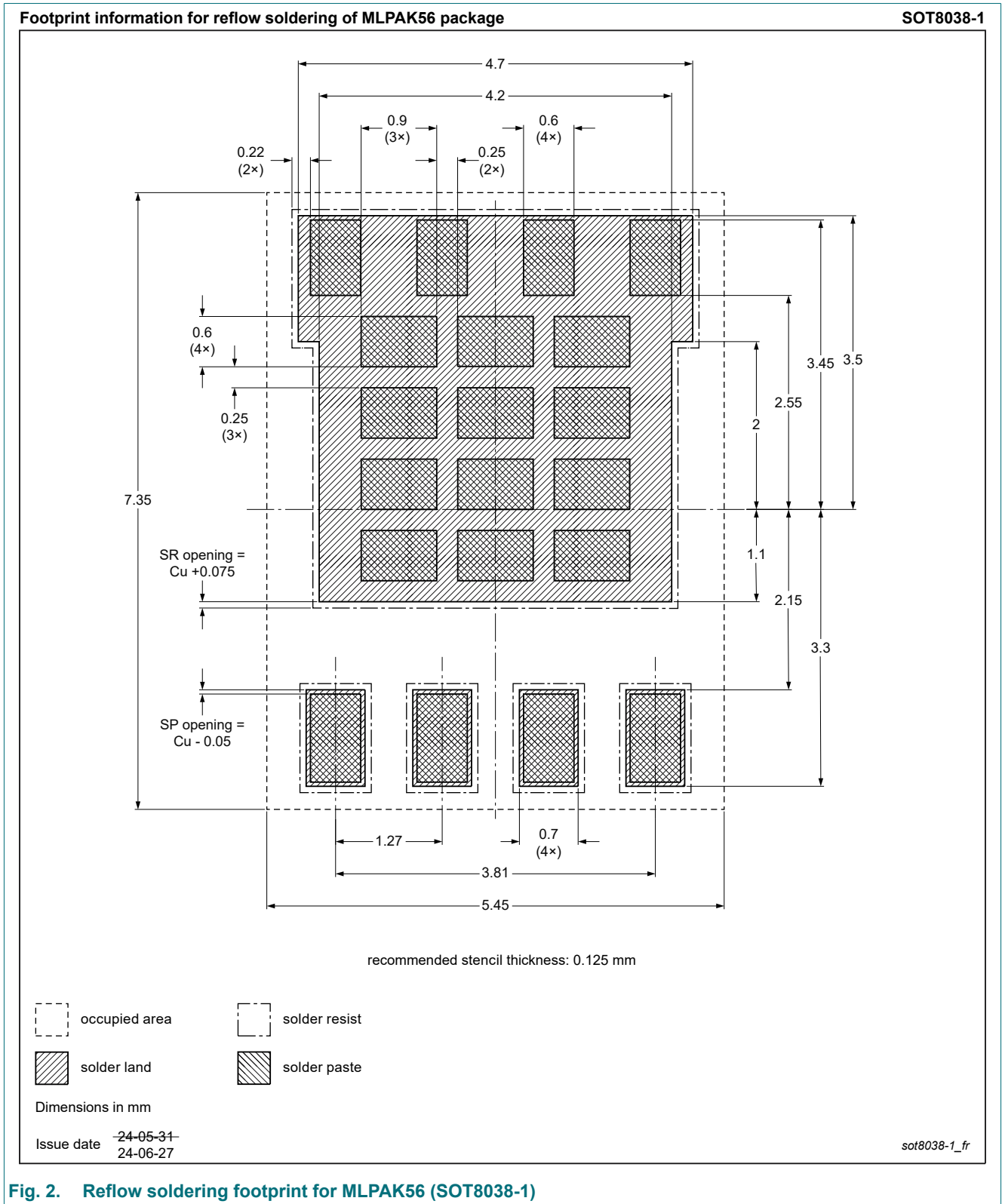


Fig. 2. Reflow soldering footprint for MLPAK56 (SOT8038-1)

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