

FEATURES

Fast switching

Automatically resets after power cycle

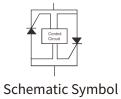
Available in low profile, small footpring SOD-123FL

Compatible with industrial lighting environments

Compatible with PWM frequencies up to 30 KHz



SOD-123FL



APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

ELECTRICAL CHARACTERISTICS

	Part Number	Marking	$V_{_{\mathrm{DRM}}}$	V_s	V_{τ}	I _{DRM}	I _s	Ι _τ	I _H	C_{\circ}
	rait Number		Min. (V)	Max. (V)	Max. (V)	Max. (μA)	mA	Max. (A)	Min. (mA)	Typ.(pF)
	PLED06F-S-MC	P008AM	6.0	25.0	4.0	5.0	800.0	2.2	40.0	10.0

SURGE RATINGS

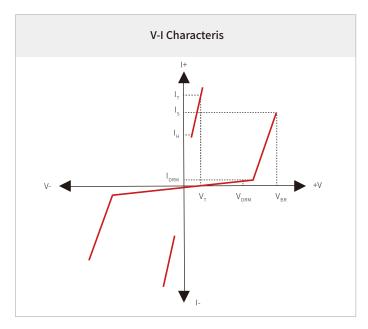
Part Number	V _{PP} 10x700us	I _{PP} 5x310us
	(V)	(A)
PLED06F-S-MC	2000	50

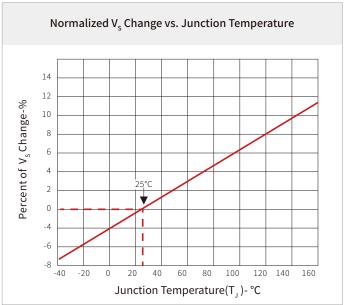
THERMAL CONSIDERATIONS

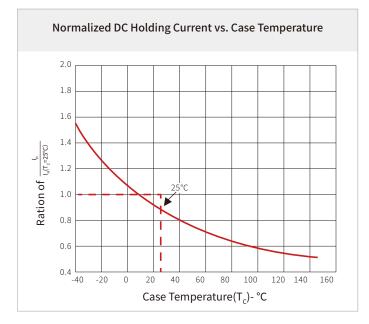
Symbol	Symbol Parameter		Unit
$R_{\theta JA}$	$R_{_{\theta JA}}$ Junction to Ambient on printed circuit		°C/W
T _J	Operating Junction Temperature	-40 to +150	°C
T _s	Storage Temperature Range	-40 to +150	°C



TYPICAL DEVICE CHARACTERISTICS



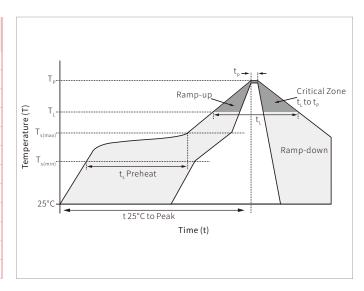




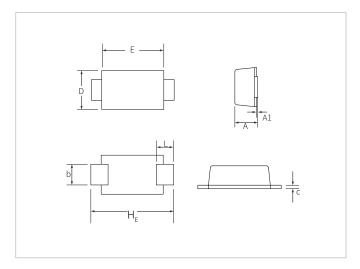


SOLDERING PARAMETERS

	Reflow Condition	Lead-free assembly	
	Temperature Max (T _{s(min)})	150°C	
Pre Heat	Temperature Max $(T_{s(max)})$	200°C	
	Time (min to max) (t_s)	60 – 180 secs	
Average rar	mp up rate (Liquidus Temp (T_L) to peak	3°C/second max	
	T _{s(max)} to T _L - Ramp-up Rate	3°C/second max	
Reflow	Temperature (T _L) (Liquidus)	217°C	
Rellow	Time (min to max) (t_L)	60 – 150 seconds	
Peak Ten	nperature (T₅)	260°C	
Time with	nin 5°C of actual peak Temperature (t _p)	20 – 40 seconds	
Ramp-do	own Rate	6°C/second max	
Time 25°	C to peak Temperature (T,)	8 minutes max.	
Do not ex	cceed	260°C	



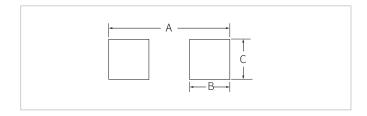
SOD-123FL PACKAGE INFORMATION



	Ref.	Millim	neters	Inches		
	itel.	Min.	Max.	Min.	Max.	
	А	0.95	1.45	0.037	0.057	
	A1	0.00	0.10	0.000	0.004	
	b	0.70	1.20	0.028	0.047	
	С	0.05	0.30	0.002	0.012	
	D	1.50	2.00	0.059	0.079	
	Е	2.50	2.90	0.098	0.114	
	L	0.35	0.90	0.014	0.035	
	H _E	3.40	3.90	0.134	0.154	

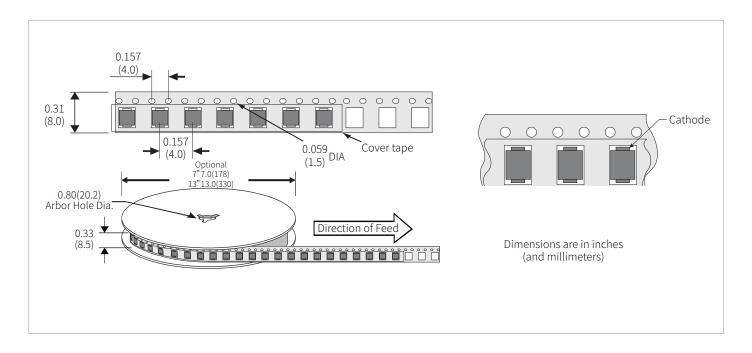


RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters	Inches
А	4.20	0.165
В	1.50	0.059
С	1.20	0.047

TAPE AND REEL SPECIFICATION



ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
PLED06F-S-MC	SOD-123FL	3000PCS	7"



Headquarters

No.3387 Shendu Road Pujiang I&E Park Minhang Shanghai China 201000

Hotline 400-021-5756

Web

Https://www.semiware.com

Sales Center

Tel: 86-21-3463-7458

Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001

Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654

Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172

Ext: 8868

Email: cs03@semiware.com

By QR Code





Website

Wechat

To find your local partner within Semiware's global website: www.semiware.com © 2022 Semiware Semiconductor Inc.

The content of this document has been carefully checked and understood. However, neither Semiware nor its subsidiaries assume any liability whatsoever for any errors or inaccuracies of this document and the consequences thereof. Published specifications are subject to change without notice. Product suitability for any area of application must ultimately be determined by the customer. In all cases, products must never be operated outside their published specifications. Semiware does not guarantee the availability of all published products. This disclaimer shall be governed by substantive Chinese law and resulting disputes shall be settled by the courts at the place of business of Semiware. Latest publications and a complete disclaimer can be downloaded from the Semiware website. All trademarks recognized.