

FEATURES

Fast switching

Automatically resets after power cycle

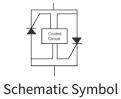
Available in low profile, small footpring SOD-123FL

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}
	Tare 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

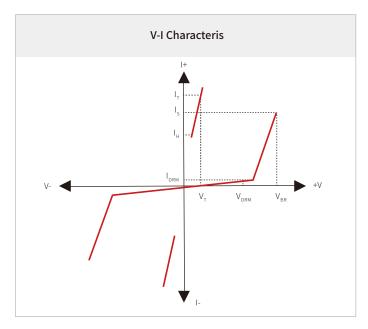
Part Number	V _{PP} 10x700us	I _{PP} 5x310us
	(V)	(A)
PLED06F-S-MC	2000	50

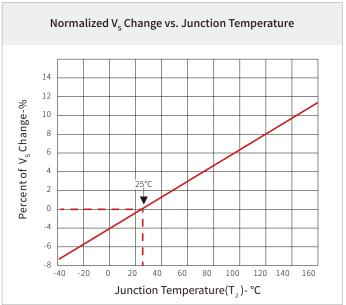
THERMAL CONSIDERATIONS

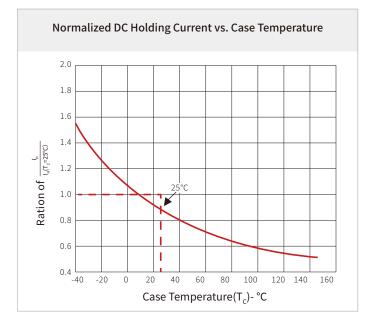
Symbol	Symbol Parameter		Unit
$R_{\theta JA}$	$R_{_{\theta JA}}$ Junction to Ambient on printed circuit		°C/W
T _J	Operating Junction Temperature	-40 to +150	°C
T _s	Storage Temperature Range	-40 to +150	°C



TYPICAL DEVICE CHARACTERISTICS



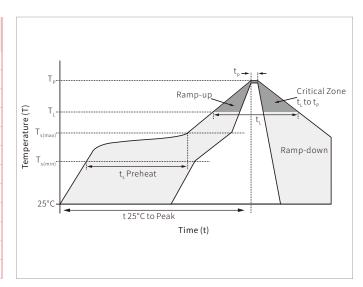




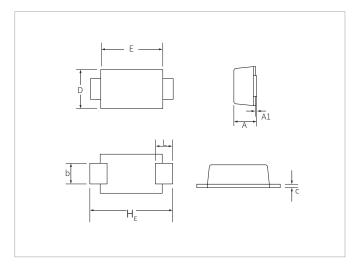


SOLDERING PARAMETERS

	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」) (Liquidus)	217°C	
Kellow	Time (min to max) $(t_{\scriptscriptstyle L})$	60 – 150 seconds	
Peak Ten	nperature (T,)	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	



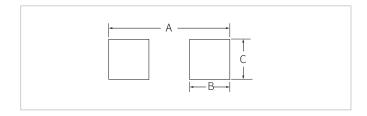
SOD-123FL PACKAGE INFORMATION



Ref.	Millim	neters	Inches		
ici.	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	3.10	0.098	0.122	
L	0.35	0.90	0.014	0.035	
H _E	3.40	3.90	0.134	0.154	

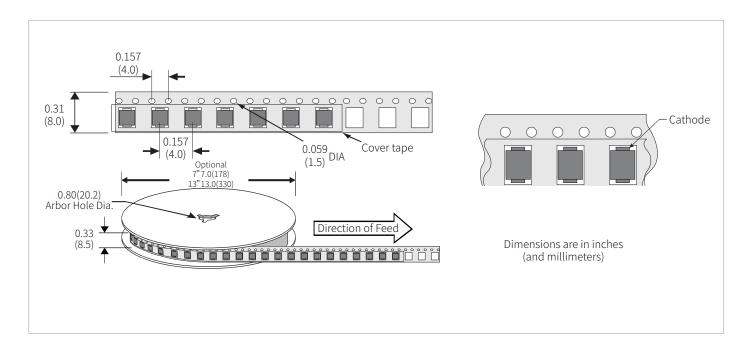


RECOMMENDED PAD LAYOUT DIMENSIONS



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"



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By QR Code





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