

FEATURES

| Excellent capability of absorbing transient surge

Quick response to surge voltage

| Eliminates over voltage caused by fast rising transients

| Solid-state silicon technology, non degenera



SOD-123FL



Marking



Schematic Symbol

APPLICATIONS

Audio/Video line

Network and telecom

Data lines and security systems

Serial ports

ELECTRICAL CHARACTERISTICS

Part Number	V _{DRM}	V _s	V _T	I _{DRM}	I _s	I _T	I _H	C _°
	Min. (V)	Max. (V)	Max. (V)	Max. (μA)	mA	Max. (A)	Min. (mA)	Typ.(pF)
P0080FA-S-MC	6.0	25.0	4.0	5.0	800.0	2.2	40.0	10.0

APPROVALS

HF

RoHS Compliance with 2011/65/EU

Compliance with IEC61249-2-21:2003

SURGE RATINGS

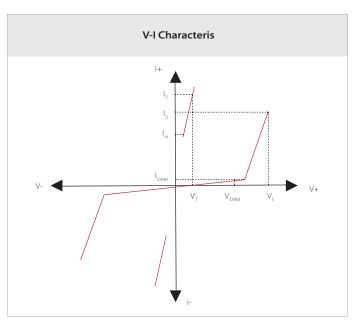
Part Number	V _{PP} 10x700us	I _{PP} 5x310us	
Tare Hamber	(V)	(A)	
P0080FA-S-MC	2000	50	

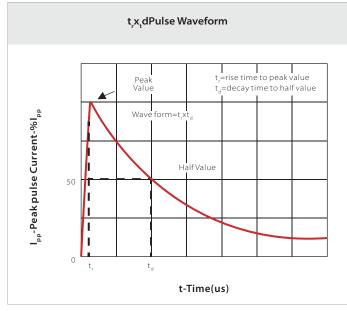


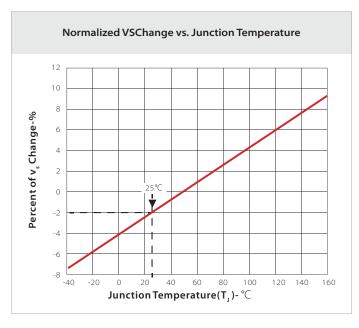
THERMAL CONSIDERATIONS

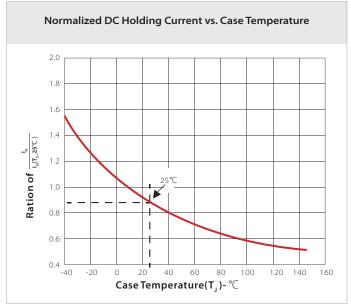
Symbol	Parameter	Value	Unit
$R_{\Theta JA}$	Junction to Ambient on printed circuit	220	°C/W
T,	Operating Junction Temperature	-55 to +150	C
T _{STG}	Storage Temperature Range	-55 to +150	C

RATINGS AND CHARACTERISTIC CURVES $(T_A = 25^{\circ}C)$





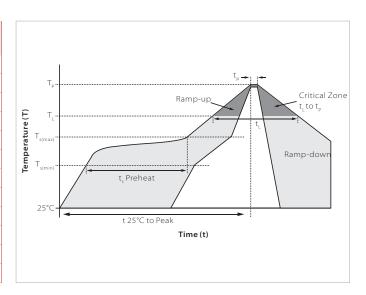




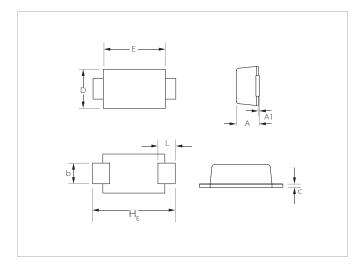


SOLDERING PARAMETERS

	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 ra	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	
Reliow	Time (min to max) (t_L)	60 – 150 seconds	
PeakTem	perature (T,)	260°C	
Time with	iin 5°C of actual peak Temperature (t _p)	20 – 40 seconds	
Ramp-do	wn Rate	6°C/second max	
Time 25°0	C to peak Temperature (T,)	8 minutes max.	
Do not ex	ceed	260°C	



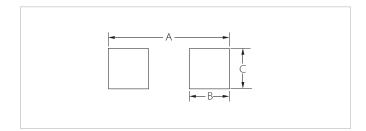
SOD-123FL PACKAGE INFORMATION



Ref.	Millimeters		Inches		
i.c.i	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

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
P0080FA-S-MC	SOD-123FL	3000PCS	7"



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