

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	$\mathbf{V}_{_{T}}$	I _{DRM}	I _s	I _T	I _H	C _°	C _°
	rait Number	Min. (V)	Max. (V)	Max. (V)	Max. (μA)	mA	Max. (A)	Min. (mA)	Min.(pF)	Max.(pF)
	P0080FA-S	6.0	25.0	4.0	5.0	800.0	2.2	40.0	15.0	35.0

APPROVALS

HF

RoHS Compliance with 2011/65/EU

Compliance with IEC61249-2-21:2003

SURGE RATINGS

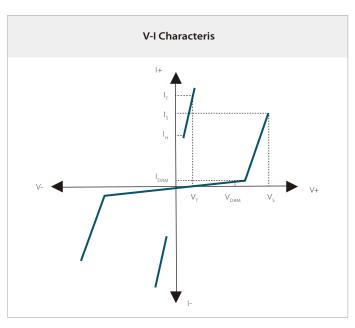
Part Number	V _{PP} 10x700us	I _{PP} 5x310us	
Ture Number	(V)	(A)	
P0080FA-S	2000	50	

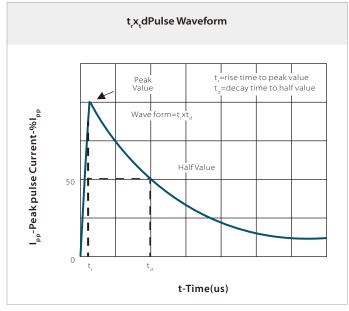


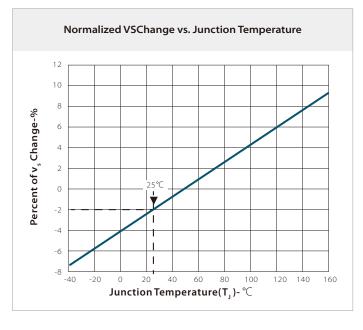
THERMAL CONSIDERATIONS

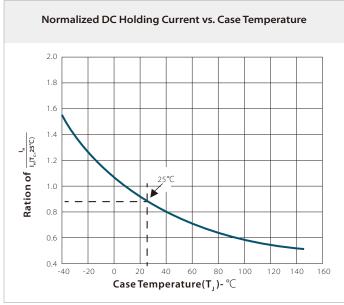
Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Junction to Ambient on printed circuit	220	°C/W
T _J	Operating Junction Temperature	-55 to +150	C
T_{STG}	Storage Temperature Range	-55 to +150	C

RATINGS AND CHARACTERISTIC CURVES ($T_A = 25$ °C)





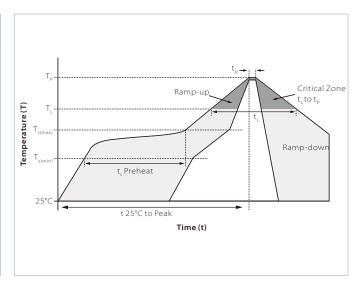




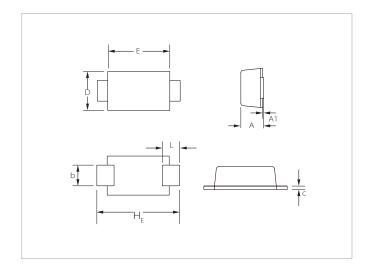


SOLDERING PARAMETERS

	Reflow Condition	Lead-free assembly
Pre Heat	Temperature $Max(T_{s(min)})$	150°C
	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
Kellow	Time (min to max) $(t_{\scriptscriptstyle L})$	60 – 150 seconds
Peak Tem	perature (T,)	260°C
Time with	in 5°C of actual peak Temperature (t _p)	20 – 40 seconds
Ramp-do	wn Rate	6°C/second max
Time 25°C to peak Temperature (Tp)		8 minutes max.
Do not exceed		260°C



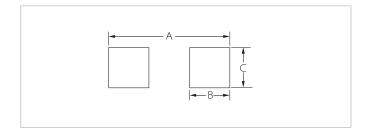
SOD-123FL PACKAGE INFORMATION



Ref.	Millin	neters	Inches		
nen.	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
Α	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	SOD-123FL	3000PCS	7"	







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