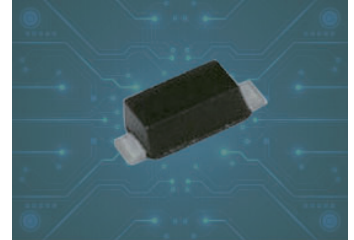


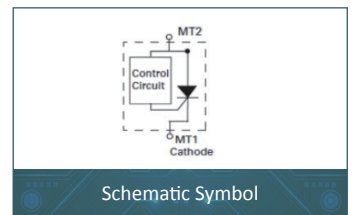
1. FEATURES

- Fast switching
- Automatically resets after power cycle
- Compatible with industrial lighting environments
- Compatible with PWM frequencies up to 30K
- RoHS compliant and halogen-free



2. APPLICATIONS

- Street lighting
- Outdoor signage
- Roadside warning lights
- Aircraft runway lighting



3. 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

4. ELECTRICAL CHARACTERISTICS

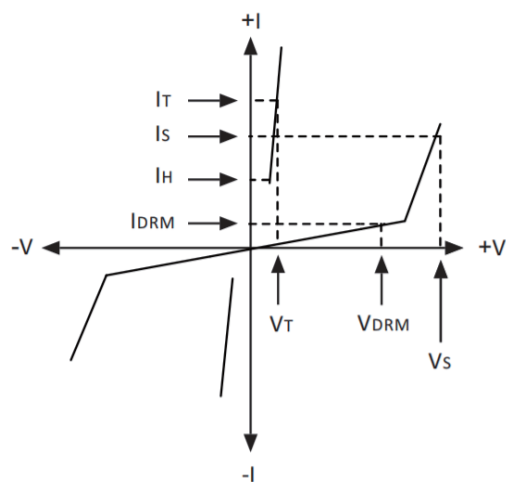
Part Number	Marking Code	V_{BR}	I_{BR}	V_{DRM}	I_H	I_S	$I_T@V_T$	$V_T@I_T=1$	Critical rate of rise dV/dt
		Min.(V)	Max.(V)	(V)	mA	mA	A	V	
PLED06F	PLED06	6.0	16.0	6.0	5.0	100.0	1.0	1.2	250.0

5. ENVIRONMENTAL CHARACTERISTICS

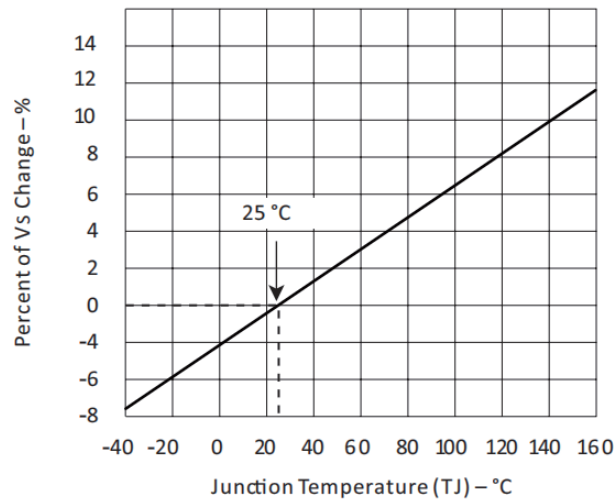
Testing Items	Technical Standards
High Temperature Reverse Bias Test	Temperature:150±3°C,Bias=80% V_{DRM} ;Time:168H
High Temperature Life Test	Temperature:150°C ;Time:168H
High-Low Temperature Cycle Test	Temperature:From -40°C to 150°C;Dwell Time:30min,10-100 Cycles
High Temperature&High Humidity	Temperature:85°C.Humidity:85%; Time:168H
Pressure Cooker Test	Temperature:121°C,2atm.Humidity:100%; Time:24H To 168H
Resistance Of Soldering Heat	Temperature:260±5°C;Time Of Dip Soldering:10s,3 Times



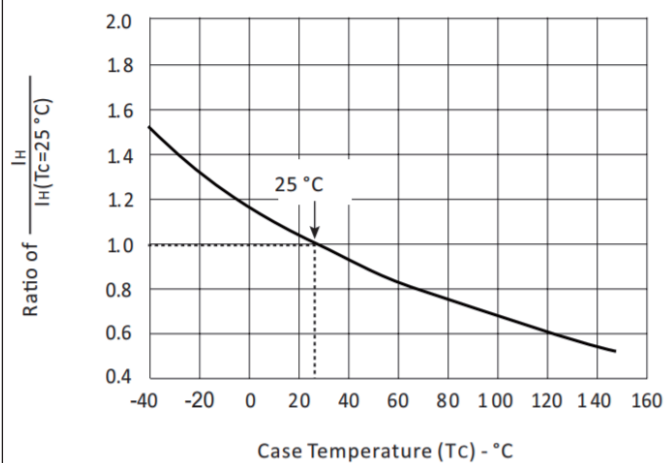
6. CHARACTERISTIC CURVES



V-I Characteris



Normalized V Change v_s Junc%on Temperature

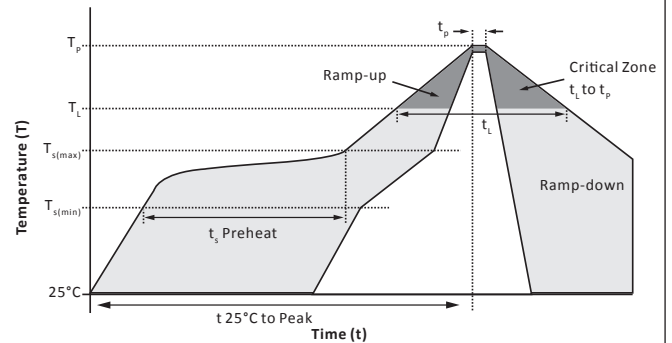


Normalized DC Holding Current vs. Case Temperature



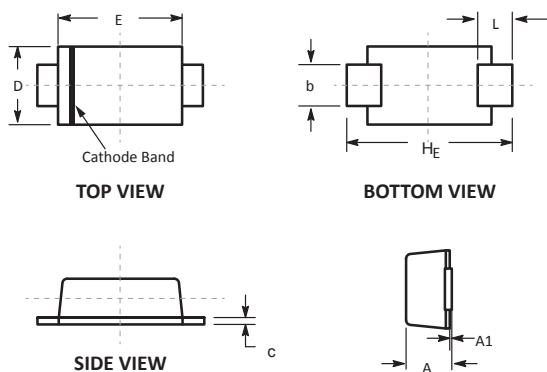
7. SOLDERING PARAMETERS

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 ramp 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
	Time (min to max) (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260°C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C

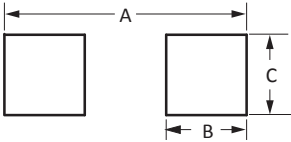


8. SOD-123FL PACKAGE INFORMATION

Item	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	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
c	0.05	0.30	0.002	0.012
D	1.50	2.00	0.059	0.079
E	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



9. RECOMMENDED PAD LAYOUT DIMENSIONS

	Item	Millimeters	Inches
	A	3.30	0.165
	B	2.40	0.036
	C	1.22	0.048

10. ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
PLED06F	SOD-123FL	3000PCS	13"



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