

Max 2200 mA bypass current

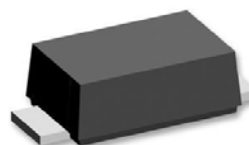
PLED-T SERIES

Automotive Surface Mount two terminal LED protector



Features

- No degrade after multiple surge events.
- Low over shoot voltage
- Fail short if surge rating over specification
- Plastic package is flammability rated V-0 per UL-94
- IEC61000-4-2 ± 30 KV both contact and air
- IEC61000-4-4 50A(5/50nS)
- AEC-Q101 qualified



SMF
SOD-123FL

Applications

- Phones
- Faxes
- Modems
- Line cards
- CPE
- Auto LED lights
- Surveillance CVBS port surge protection

Function Diagram



Electrical Characteristics

Part Number	Marking	$V_{DRM}@5\mu A$ (V)	$V_S@100V/\mu S$ (V)	I_H (mA)	I_S (mA)	I_T (A)	$V_T@I_T=2.2A$ (V)	Capacitance (pF) 1MHz, 2V bias	
		Min.	Max.	Min.	Max.	Max.	Max.	Min.	Max.
PLED06FS-T	P6FM	6	15	12	70	2.2	4	-	40

Absolute Maximum Rating

(TA = 25°C unless otherwise specified)

Parameter	Symbol	Value	Units
Operating junction temperature range	T_j	-40 to +125	°C
Storage Temperature Range	T_{stg}	-65 to +150	°C
ESD Rating per IEC61000-4-2 Contact (Air)	V_{ESD}	± 30 ± 30	KV

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Surge Ratings(I_{PP})

0.2/310 ¹ 0.5/700 ²	2/10 ¹ 2/10 ²	8/20 ¹ 1.2/50 ²	10/160 ¹ 10/160 ²	10/560 ¹ 10/560 ²	5/320 ¹ 9/720 ²	10/360 ¹ 10/360 ²	10/1000 ¹ 10/1000 ²	5/310 ¹ 10/700 ²	I_{TSM} 50/60Hz	di/dt
A Min.	A Min.	A Min.	A Min.	A Min.	A Min.	A Min.	A Min.	V Min.	A Min.	A/μs Max.
-	-	-	-	-	-	-	-	2000	-	-

Notes:

1 Current waveform in μs

2 Voltage waveform in μs

Typical Characteristics

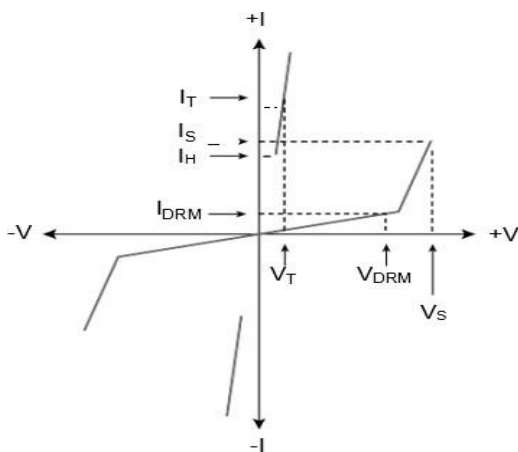


Figure 1. I-V Curve

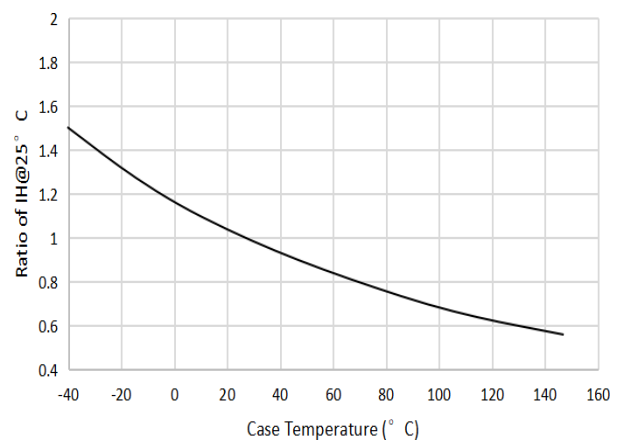


Figure 2. DC holding current Vs. Case temperature

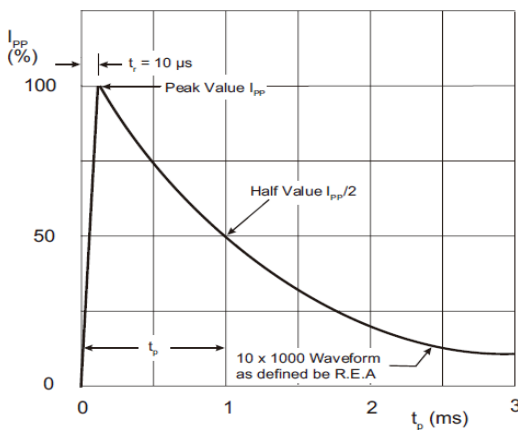


Figure3. Pulse waveform

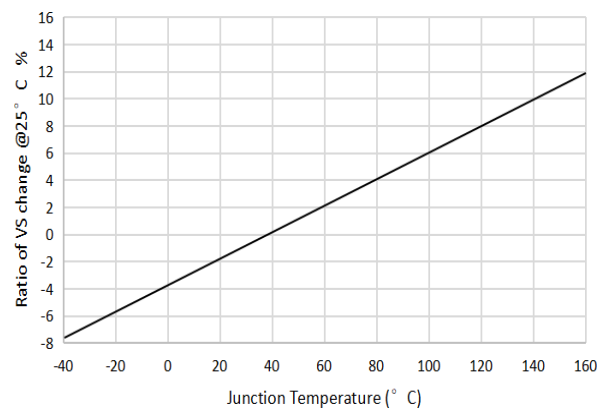


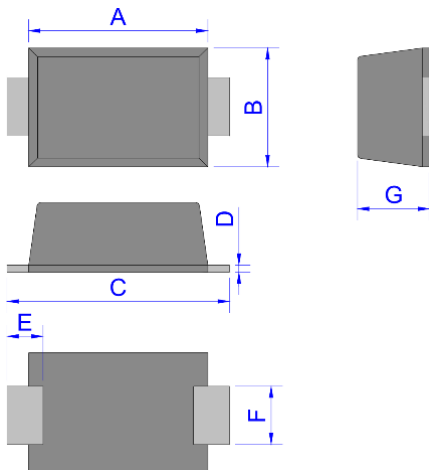
Figure 4. Peak pulse power rating curve

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Dimensions



Ref	Millimeters	
	Min.	Max.
A	2.70	3.05
B	1.70	1.90
C	3.50	3.90
D	0.10	0.20
E	0.40	0.90
F	0.80	1.10
G	0.80	1.08

Package Information

Qty: 3,000 /Tape and reel