

Max 2200 mA bypass current

PLEDXXBS-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 ±30KV both contact and air
- IEC61000-4-4 50A(5/50nS)
- AEC-Q101 qualified



DO-214AA(SMB)

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.
PLED06BS-T	P6FA	6	15	20	800	2.2	4	-	40
PLED09BS-T	P09A	9	18	20	800	2.2	4	-	35
PLED15BS-T	P15A	15	32	20	800	2.2	4	-	30
PLED25BS-T	P25A	25	40	20	800	2.2	4	-	100

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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

Surge Ratings(I_{PP})

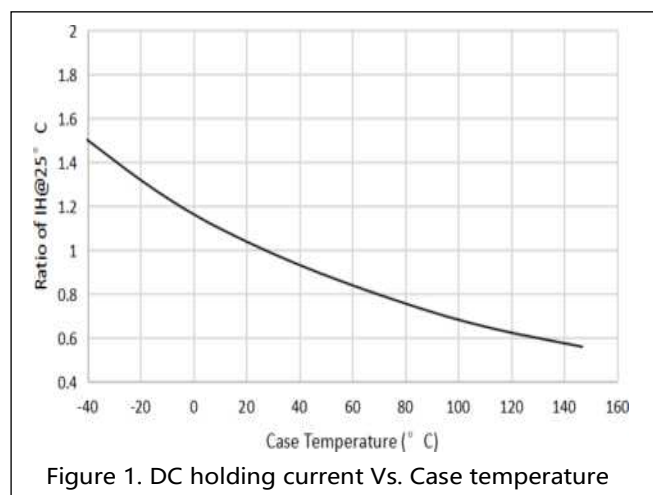
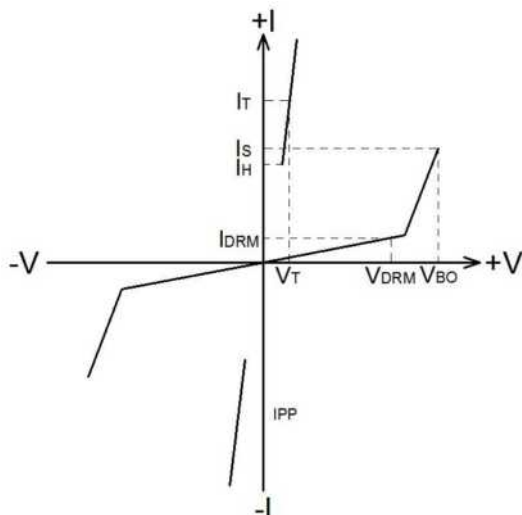
0.2/310 ¹ 0.5/700 ²	2/10 ¹ 2/10 ²	8/20 ¹ 1.2/50 ²	10/160 ¹ 10/160 ²	10/560 ¹ 10/560 ²	5/320 ¹ 9/720 ²	10/360 ¹ 10/360 ²	10/1000 ¹ 10/1000 ²	5/310 ¹ 10/700 ²	I _{TSM} 50/60Hz	di/dt
A Min.	A Min.	A Min.	A Min.	A Min.	A Min.	A Min.	A Min.	V Min.	A Min.	A/μs Max.
-	-	-	-	-	-	-	-	3000	-	-

Notes:

1 Current waveform in μs

2 Voltage waveform in μs

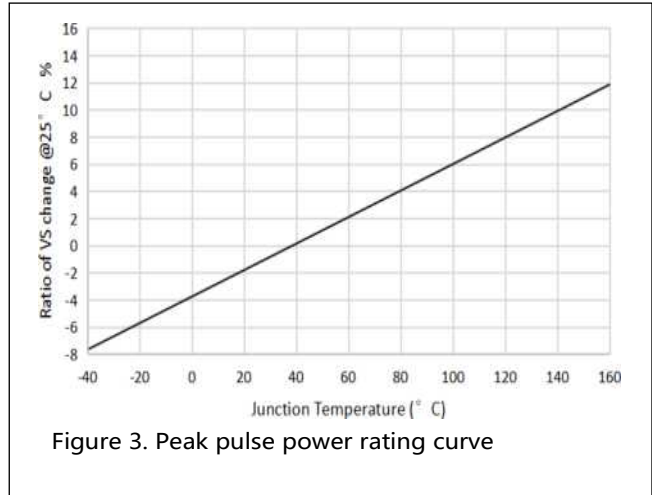
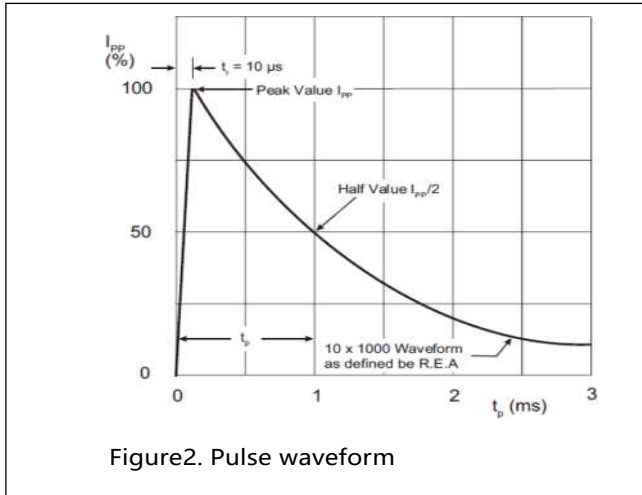
Typical Characteristics



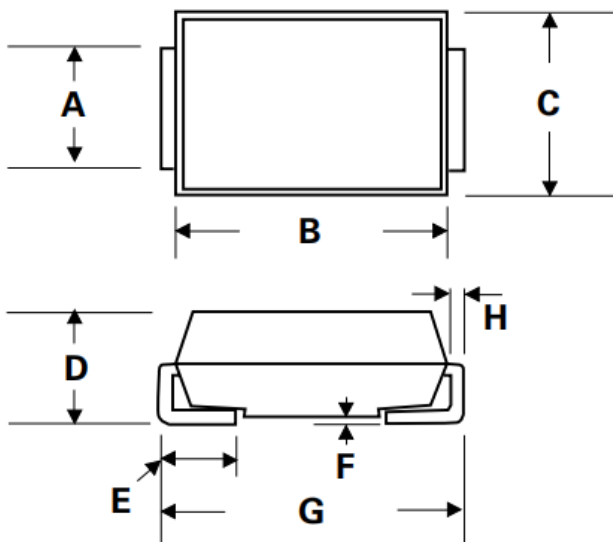
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Package mechanical data



Ref.(mm)	Millimeters	
	Min.	Max.
A	1.850	2.150
B	4.350	4.650
C	3.450	3.750
D	2.100	2.600
E	0.800	1.500
F	-	0.300
G	5.050	5.550
H	0.195	0.205

Package Information

Qty: 3,000/Tape and reel