

PJLEDS3250

RECTIFICATION FUNCTION IN FLYBACK CONVERTER FOR LED POWER

VOLTAGE 250 Volts **CURRENT** 3 Ampere

DO-201AD

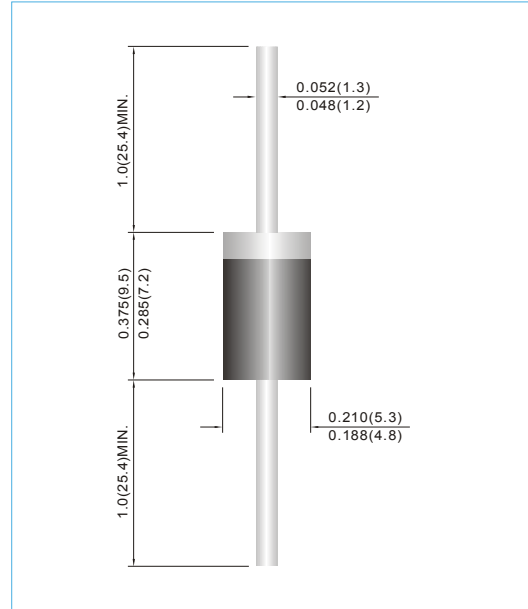
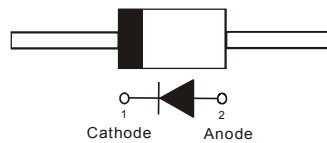
Unit : inch(mm)

FEATURES

- Ideal for rectification function in flyback converter for LED power.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High surge capacity.
- Extremely low leakage current, suitable for high temperature ambience.
- Lead free in comply with EU RoHS 2011/65/EU directives.

MECHANICAL DATA

- Case : Molded plastic, DO-201AD
- Terminals : Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity : Color Band denotes cathode end
- Weight : 0.04 ounce, 1.142 gram
- Marking : LEDS3250



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	250	V
Maximum RMS Voltage	V_{RMS}	175	V
Maximum DC Blocking Voltage	V_{DC}	250	V
Maximum Average Forward Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125	A
Maximum Forward Voltage at 3A DC	V_F	0.93	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.2	μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	30	ns
Typical Junction Capacitance (Note 2)	C_J	45	pF
Typical Junction Resistance (Note 3)	$R_{\theta JA}$	25	$^{\circ}C / W$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

NOTES: 1. Reverse Recovery Test Conditions : $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$

2. Measured at 1 MHz and applied reverse voltage of 4 VDC

3. Thermal resistance from junction to ambient and from junction to lead length 10mm P.C.B. mounted

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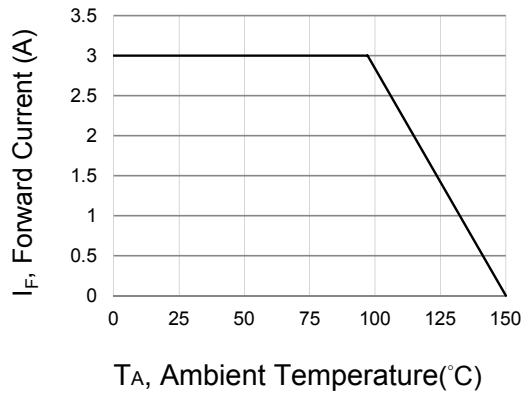


Fig.1 Forward Current Derating Curve

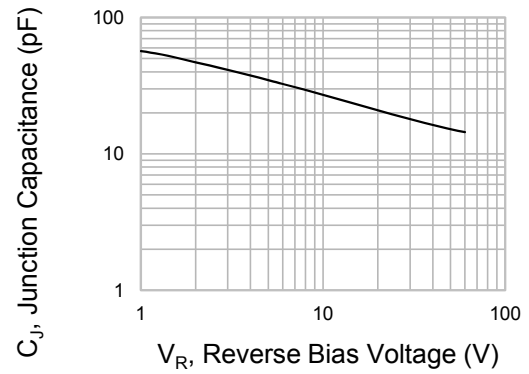


Fig.2 Typical Junction Capacitance

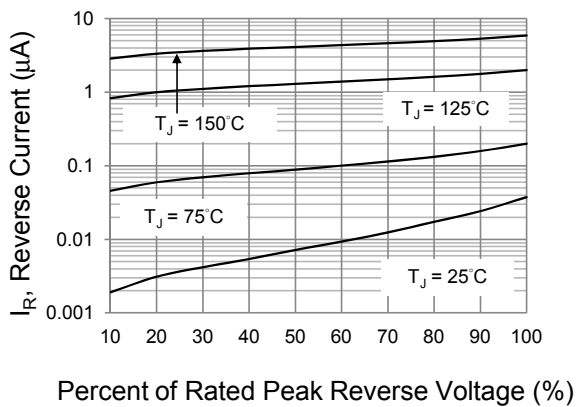


Fig.3 Typical Reverse Characteristics

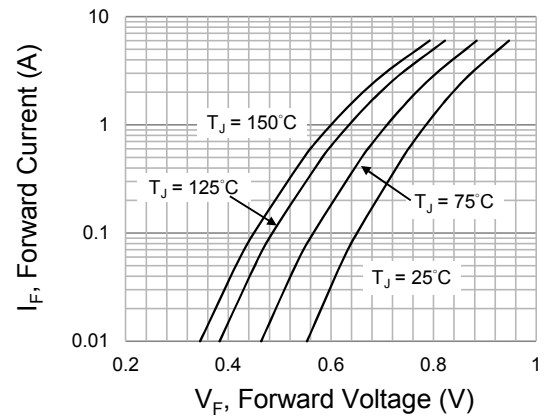


Fig.4 Typical Forward Characteristics



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