



# PJLEDS5250

## RECTIFICATION FUNCTION IN FLYBACK CONVERTER FOR LED POWER

**VOLTAGE** 250 Volts **CURRENT** 5 Amperes

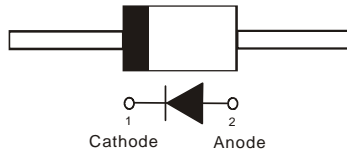
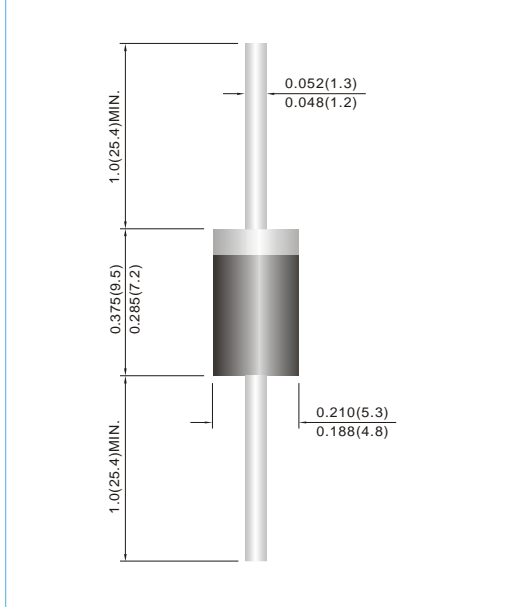
**DO-201AD** Unit : inch(mm)

### 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 : LEDES5250



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

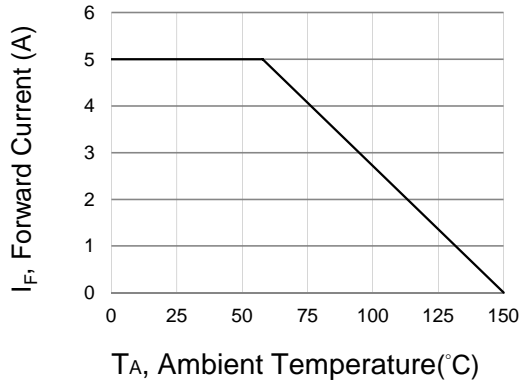
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

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	$I_{F(AV)}$	5	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150	A
Maximum Forward Voltage at 5A	$V_F$	0.93	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.2	$\mu A$
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	30	ns
Typical Junction Capacitance (Note 2)	$C_J$	55	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	$^{\circ}C$

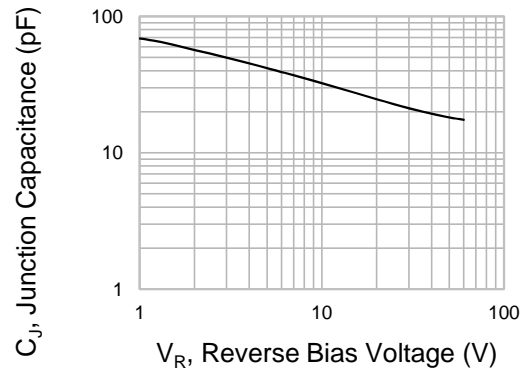
NOTES: 1. Reverse Recovery Test Conditions :  $I_F=0.5A, I_R=1A, I_{rr}=0.25A$   
 2. Measured at 1 MHz and applied reverse voltage of 4 VDC  
 3. Thermal resistance from junction to ambient and from junction to lead length 10mm P.C.B. mounted



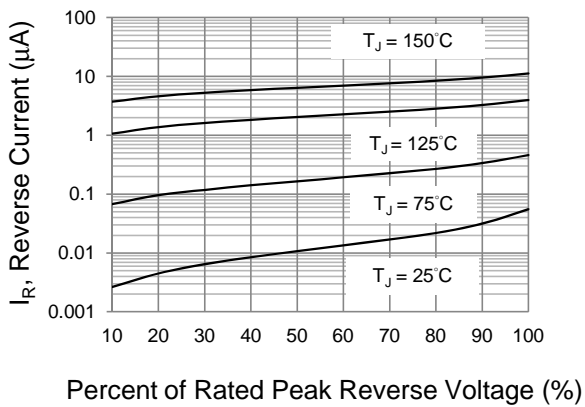
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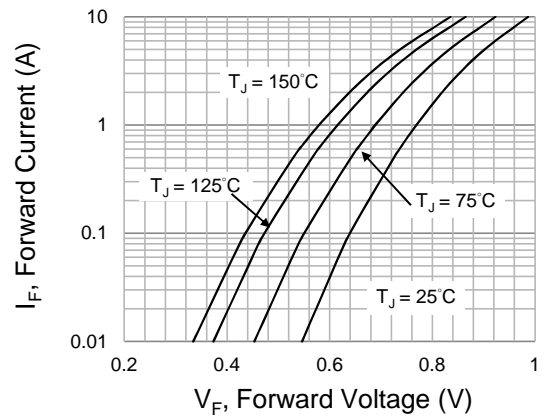
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



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