## LITE ON COMPONENTS.com PR3001 thru PR3007

FAST RECOVERY RECTIFIERS			REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 Amperes						
FEATURES • Fast switching for high efficiency • Low cost • Diffused junction • Low reverse leakage current • Low forward voltage drop • High current capability • The plastic material carries UL recognition <b>MECHANICAL DATA</b> • Case : JEDEC DO-201AD molded plastic • Polarity : Color band denotes cathode • Weight : 0.04 ounces, 1.1 grams • Mounting position : Any	DO-201AD         A       B       A         Image: Do-201AD       Image: Do-201AD         Image: Do-201AD       Image: D								
All Dimensions in millimeter           MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS									
Ratings at 25°C ambient temperature unless otherwise specified.									
CHARACTERISTICS	SYMBOL	PR3001	PR3002	PR3003	PR3004	PR3005	PR3006	PR3007	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage Maximum DC Blocking Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Ta=90°C	VDC I(AV)	50         100         200         400         600         800         1000           3.0						V A	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	IFSM	150							А
Maximum forward Voltage at 3.0A DC	VF	1.2						V	
Maximum DC Reverse Current@TJ = 25°Cat Rated DC Blocking Voltage@TJ = 100°C	IR	5 100							uA
Maximum Reverse Recovery Time (Note 1)	TRR	150 250 500					00	ns	
Typical Junction Capacitance (Note 2)	Сл	65 40						pF	

NOTES : 1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

Typical Thermal Resistance (Note 3)

Operating Temperature Range

Storage Temperature Range

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Reja

ΤJ

Tstg

°C/W

°C

°C

REV. 4, Oct-2010, KDBF01

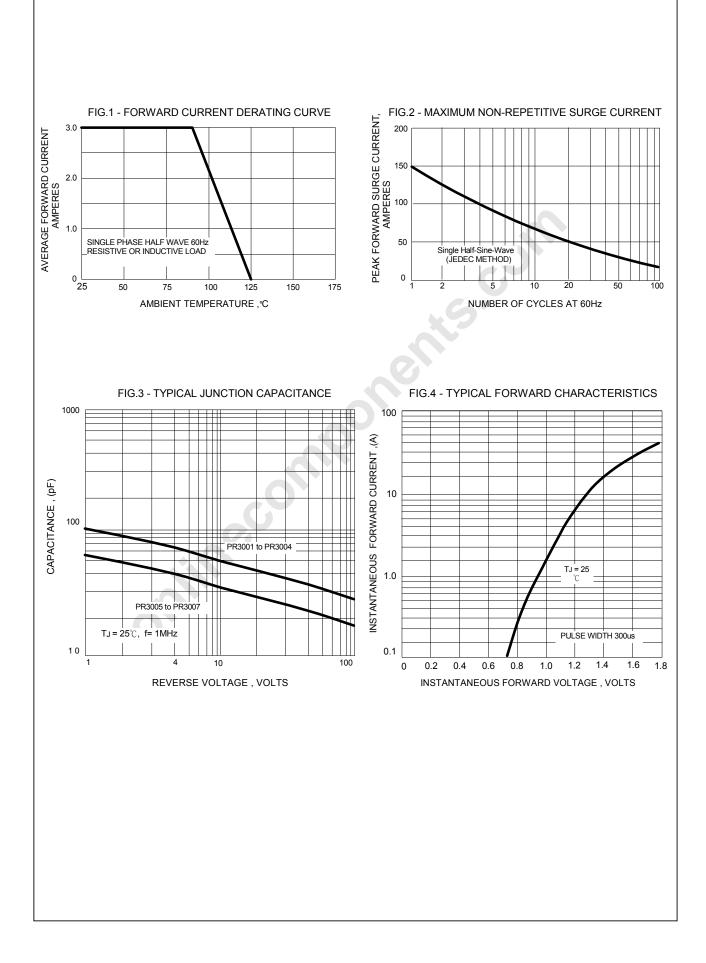
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-55 to +125

-55 to +150

3. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES Components.com PR3001 thru PR3007



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