LITE ON SEMICONDUCTOR

PR2001 thru PR2007

°C

°C

REV. 3, Oct-2010, KDBD02

-55 to +125

-55 to +150

REVERSE VOLTAGE - 50 to 1000 Volts FAST RECOVERY RECTIFIERS FORWARD CURRENT - 2.0 Amperes DO-15 **FEATURES** • Fast switching for high efficiency Low cost A • Diffused junction • Low reverse leakage current Low forward voltage drop • High current capability • The plastic material carries UL recognition 94V-0 DO-15 **MECHANICAL DATA** Min. Dim Max. • Case : JEDEC DO-15 molded plastic Α 25.4 • Polarity : Color band denotes cathode 7.60 В 5.80 0.71 Ø • Weight : 0.015 ounces, 0.4 grams С 0.86 Ø 3.60 Ø D 2.60 Ø Mounting position : Any All Dimensions in millimeter MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. SYMBOL PR2001 PR2002 PR2003 PR2004 PR2005 PR2006 PR2007 UNIT CHARACTERISTICS Maximum Recurrent Peak Reverse Voltage 200 400 600 800 50 100 1000 V VRRM Maximum RMS Voltage 70 140 280 420 560 700 35 **V**RMS V Maximum DC Blocking Voltage 100 200 400 600 800 1000 50 VDC V Maximum Average Forward l(AV) @TA=50°C 2.0 А Rectified Current Peak Forward Surge Current 8.3ms single half sine-wave А IFSM 50 super imposed on rated load (JEDEC Method) Maximum forward Voltage at 2.0A DC V VF 1.2 Maximum DC Reverse Current @T」=25℃ uA 50 ΙR at Rated DC Blocking Voltage 100 @TJ=100°C uA Maximum Reverse Recovery Time (Note 1) 150 250 500 TRR ns **Typical Junction** 45 25 рF СJ Capacitance (Note 2) Typical Thermal Resistance (Note 3) Reja 50 °C/W **Operating Temperature Range**

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

Storage Temperature Range

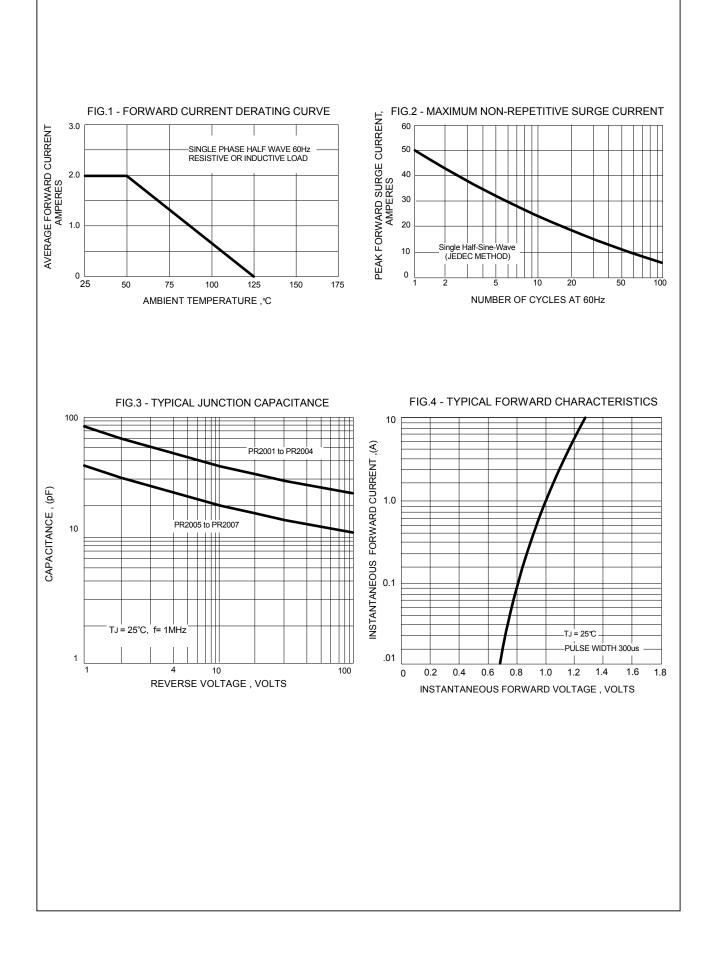
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

ТJ

Tstg

3. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES PR2001 thru PR2007



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