

**FAST RECOVERY  
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000** Volts  
FORWARD CURRENT - **2.0** Amperes

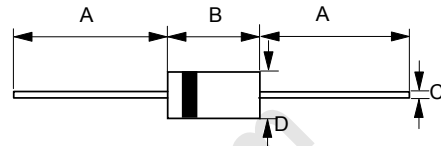
**FEATURES**

- Fast switching for high efficiency
- Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

**MECHANICAL DATA**

- Case : JEDEC DO-15 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.015 ounces, 0.4 grams
- Mounting position : Any

**DO-15**



DO-15		
Dim.	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.71 $\phi$	0.86 $\phi$
D	2.60 $\phi$	3.60 $\phi$
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	PR 2001G	PR 2002G	PR 2003G	PR 2004G	PR 2005G	PR 2006G	PR 2007G	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =55°C	I(AV)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I <sub>FSM</sub>	80							A
Maximum forward Voltage at 2.0A DC	V <sub>F</sub>	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 100							uA uA
Typical Junction Capacitance (Note1)	C <sub>J</sub>	35							pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub> R <sub>θJC</sub>	40 18 15							°C/W
Maximum Reverse Recovery Time (Note 3)	T <sub>RR</sub>	150				250	500		°C
Operating Temperature Range	T <sub>J</sub>	-55 to +150							ns
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2.Thermal Resistance Junction to Ambient, Lead and Case.  
3.Reverse Recovery Test Conditions:I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,I<sub>RR</sub> =0.25A.

FIG.1 - FORWARD CURRENT DERATING CURVE

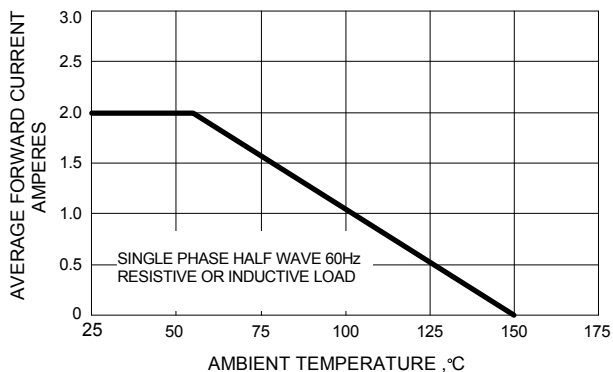


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

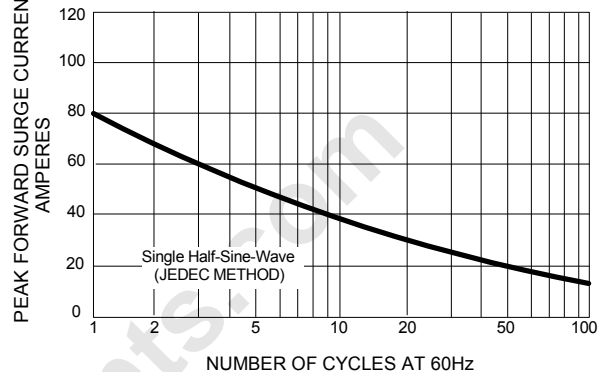


FIG.3 - TYPICAL JUNCTION CAPACITANCE

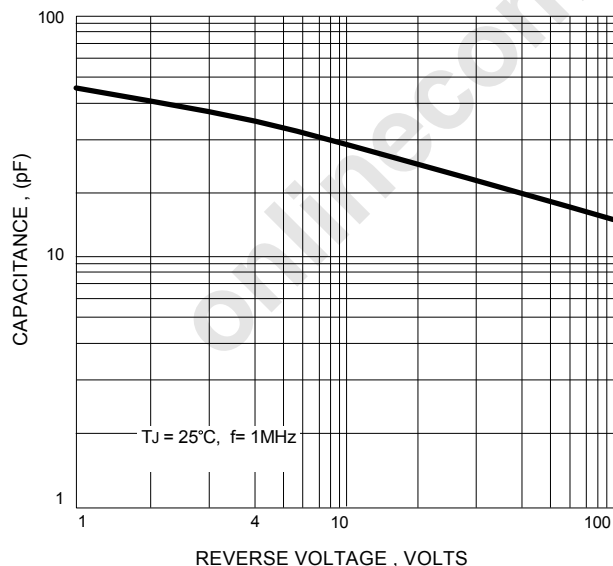
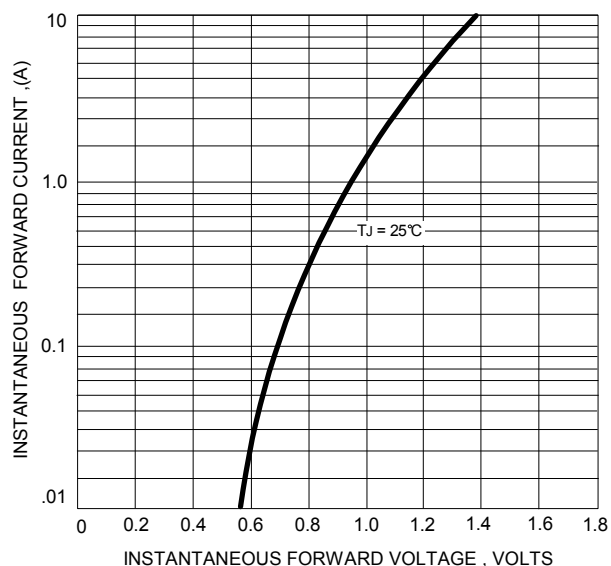


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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