

**FAST RECOVERY
GLASS PASSIVATED RECTIFIERS**

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

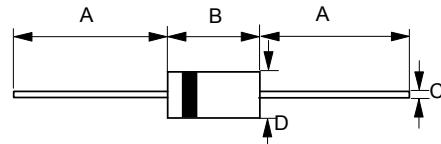
FEATURES

- 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 ϕ	0.86 ϕ
D	2.60 ϕ	3.60 ϕ
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 _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =55 °C	I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	80							A
Maximum forward Voltage at 2.0A DC	V _F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25 °C @T _J =125 °C	I _R	5.0 100							uA
Typical Junction Capacitance (Note1)	C _J	35							pF
Typical Thermal Resistance (Note 2)	R _{θJA} R _{θJL} R _{θJC}	40 18 15							°C/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	150				250	500		ns
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-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_F=0.5A,I_R=1A,I_{RR} =0.25A.

FIG.1 - FORWARD CURRENT DERATING CURVE

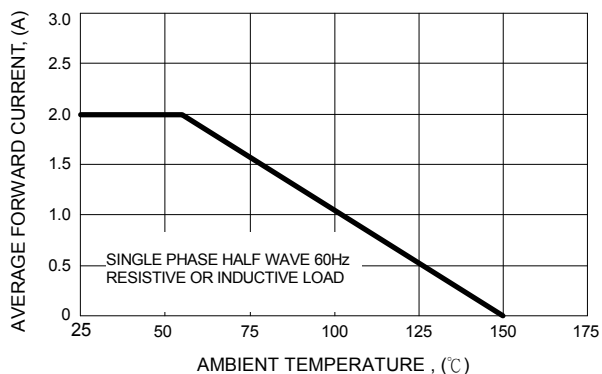


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

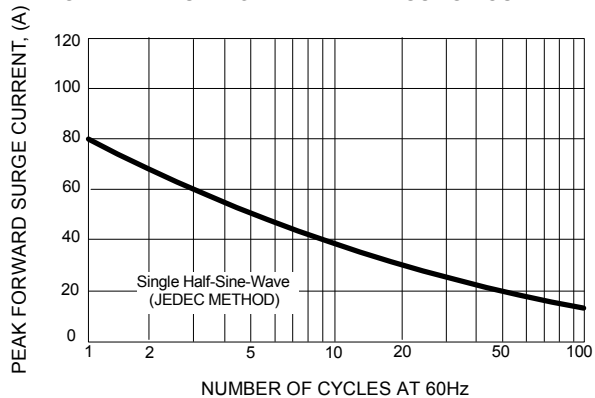


FIG.3 - TYPICAL JUNCTION CAPACITANCE

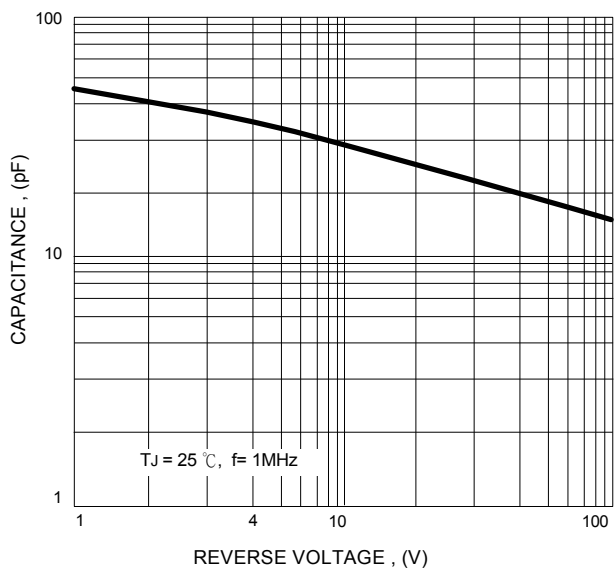
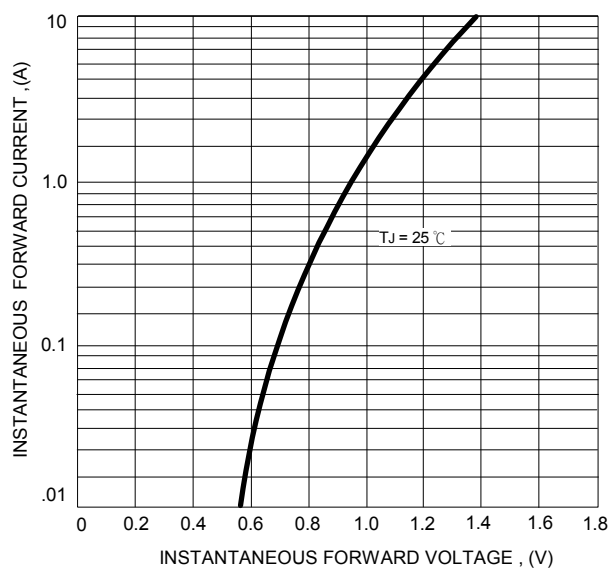


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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