

**FAST RECOVERY
GLASS PASSIVATED RECTIFIERS**

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

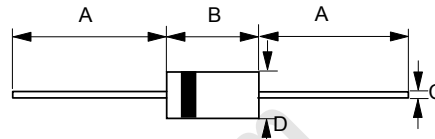
FEATURES

- 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	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=55°C	l(AV)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	80							A
Maximum forward Voltage at 2.0A DC	VF	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=125°C	IR	5.0 100							uA uA
Typical Junction Capacitance (Note1)	CJ	35							pF
Typical Thermal Resistance (Note 2)	RθJA RθJL RθJC	40 18 15							°C/W
Maximum Reverse Recovery Time (Note 3)	TRR	150				250	500		°C
Operating Temperature Range	TJ	-55 to +150							ns
Storage Temperature Range	TSTG	-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.

REV. 4, Oct-2010, KDED02

FIG.1 - FORWARD CURRENT DERATING CURVE

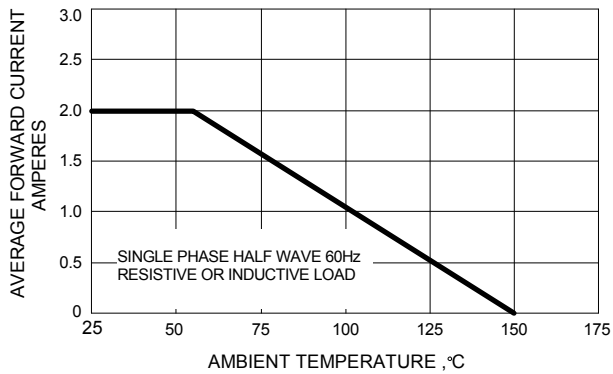


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

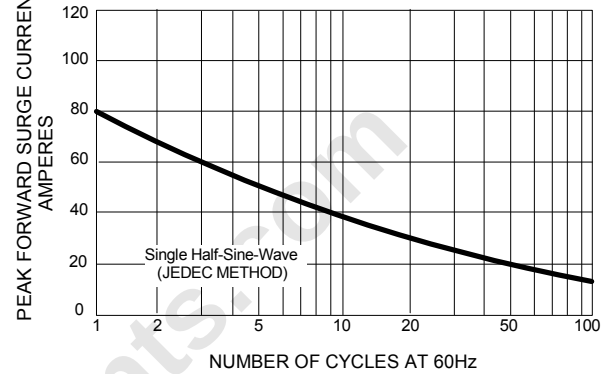


FIG.3 - TYPICAL JUNCTION CAPACITANCE

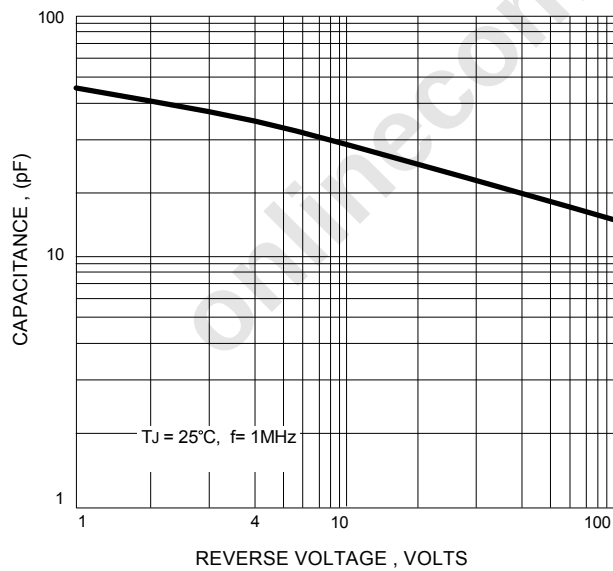
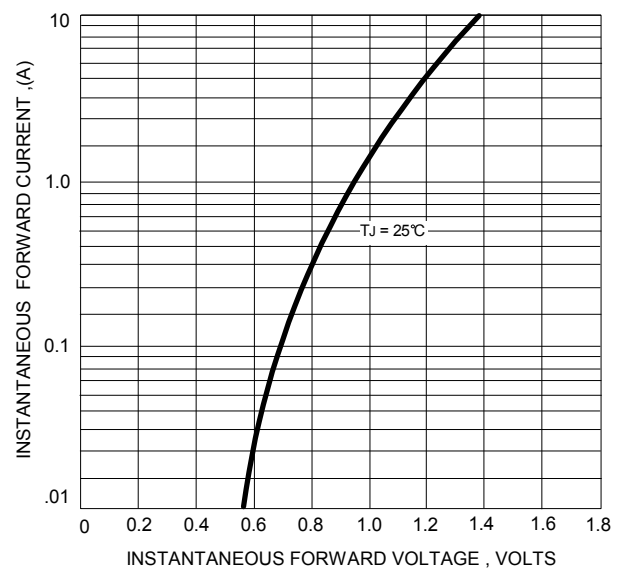


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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