

**FAST RECOVERY
GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000** Volts
FORWARD CURRENT - **1.0** Ampere

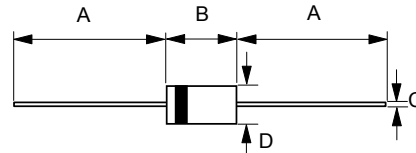
FEATURES

- 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 A-405 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.008 ounces, 0.22 grams
- Mounting position : Any

A-405



A-405		
Dim.	Min.	Max.
A	25.4	-
B	4.10	5.20
C	0.53 ϕ	0.64 ϕ
D	2.00 ϕ	2.70 ϕ
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	PR 1001GL	PR 1002GL	PR 1003GL	PR 1004GL	PR 1005GL	PR 1006GL	PR 1007GL	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)	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	30							A
Maximum forward Voltage at 1.0A DC	V _F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C	I _R	5.0							uA
@T _J =100°C		50							uA
Typical Junction Capacitance (Note1)	C _J	15							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	50							°C/W
Typical 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.
3. Reverse Recovery Test conditions: I_F=0.5A, I_R=1A, I_{RR}=0.25A.

REV. 3, Oct-2010, KDEB02

FIG.1 - FORWARD CURRENT DERATING CURVE

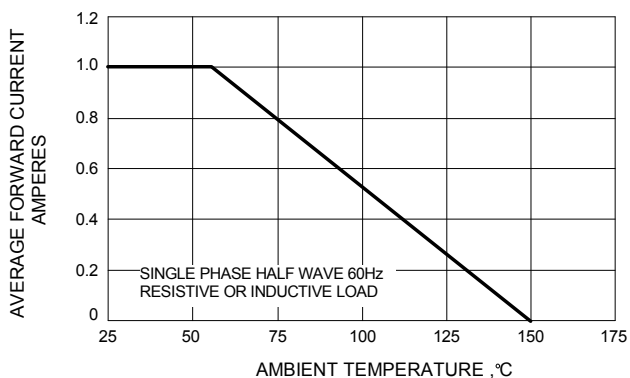


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

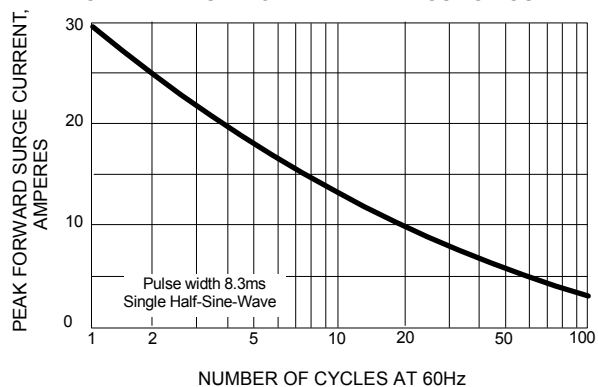


FIG.3 - TYPICAL JUNCTION CAPACITANCE

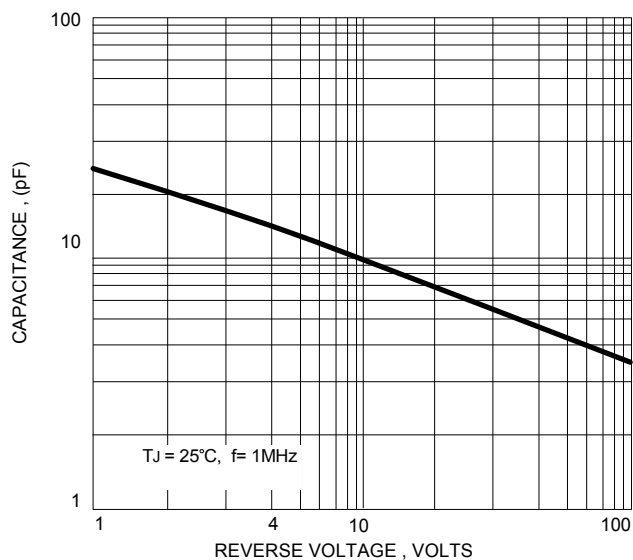
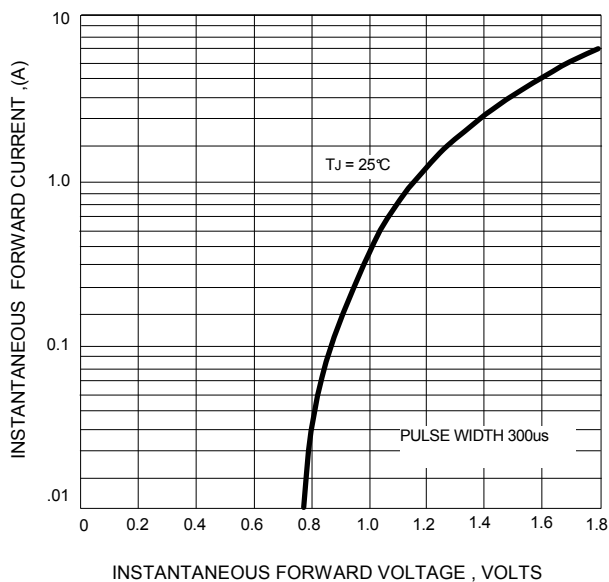


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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