

BY396G~BY399G

GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

VOLTAGE 100 to 800 Volt **CURRENT** 3.0 Ampere

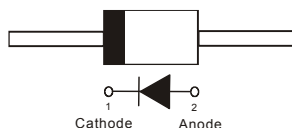
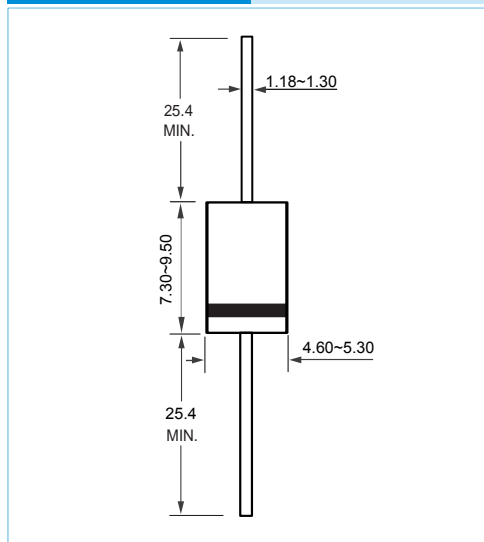
DO-201AD Unit:mm

FEATURES

- High current capability
- Low leakage
- Fast switching for high efficiency.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	BY396G	BY397G	BY398G	BY399G	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	800	V
Maximum RMS Voltage	V_{RMS}	70	140	280	560	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	800	V
Maximum Average Forward Current (see FIG.2)	$I_{F(AV)}$	3.0				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100				A
Maximum Forward Voltage at 3 A	V_F	1.3				V
Maximum DC Reverse Current at at Rated DC Blocking Voltage	I_R	5.0 200				μA
		$T_J=25^{\circ}C$ $T_J=100^{\circ}C$				
Typical Junction Capacitance	C_J	50				pF
Maximum Reverse Recovery Time	t_{rr}	150				ns
Typical Thermal Resistance	$R_{\theta JA}$	67				$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150				$^{\circ}C$

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Figure 1
Typical Forward Characteristics

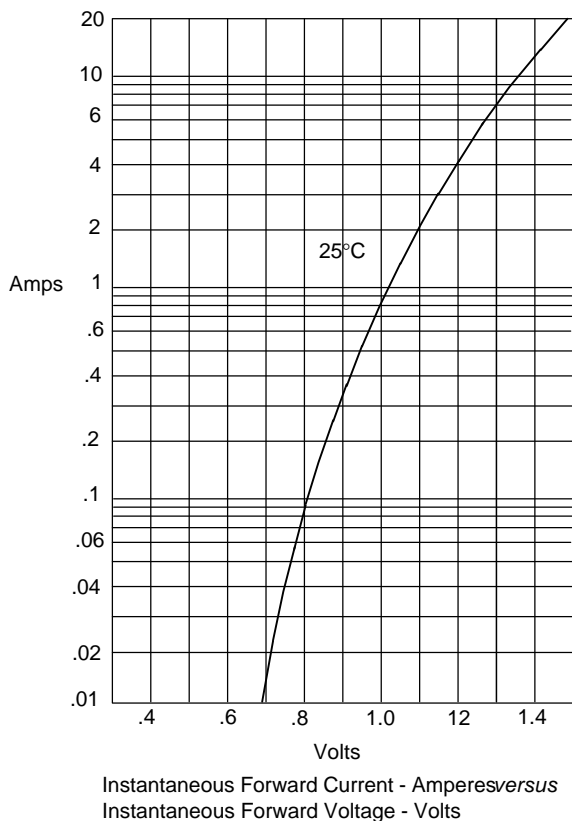


Figure 2
Forward Derating Curve

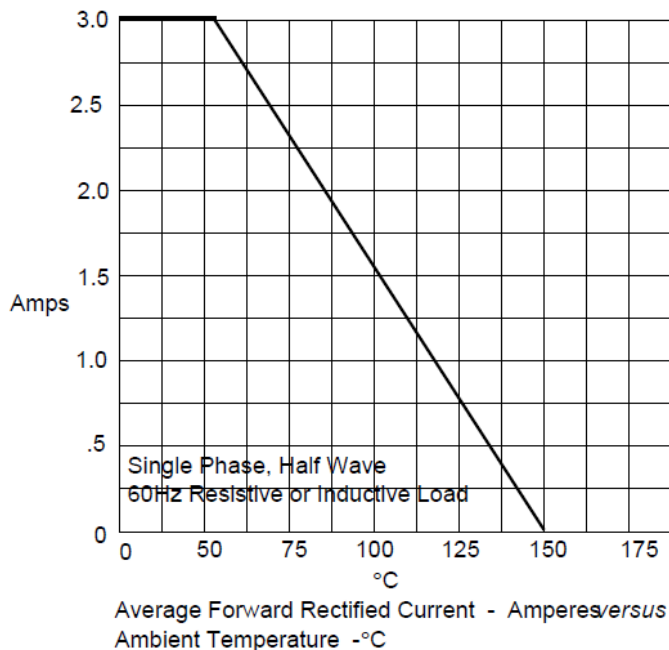


Figure 4
Maximum Non-Repetitive Forward Surge Current

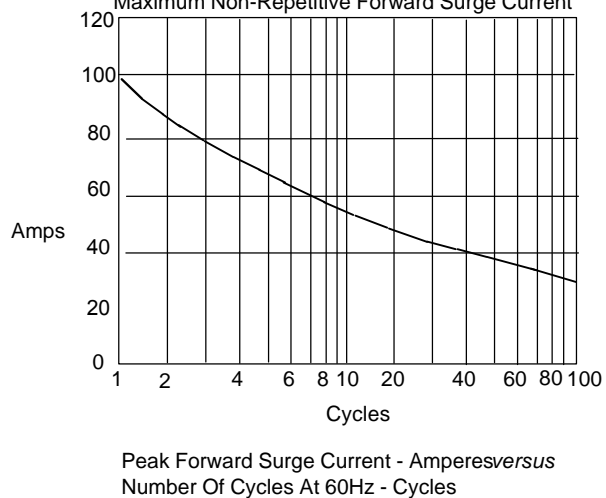
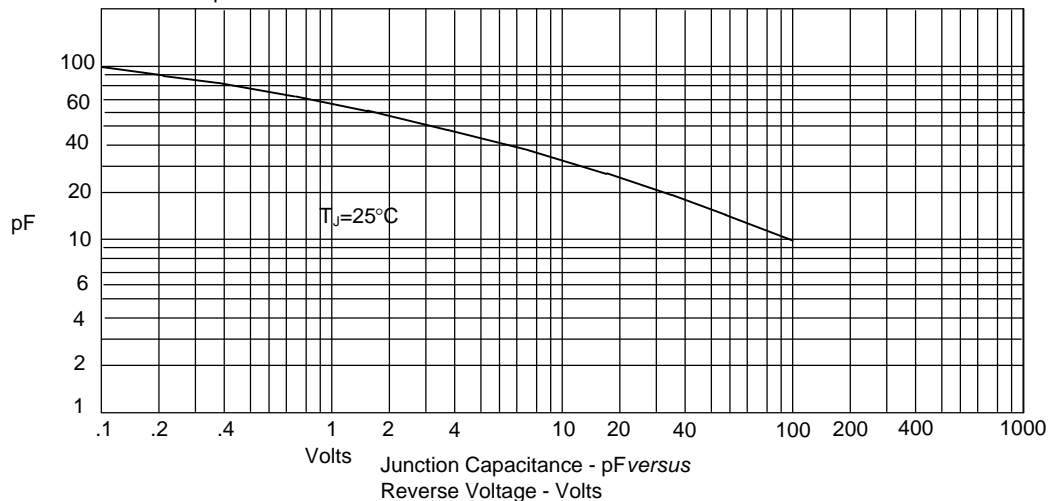


Figure 3
Junction Capacitance



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Ordering Information

- **Packing information**

BY396G~BY399G	Packing Quantity
Tape&Reel	13 Inch; 1.25kpcs/Reel
Ammo Packing	1.25kpcs/Ammo Box
Bulk(Tube/Box)	0.5kpcs/Box