# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

BY396 THRU BY399

## TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

### FEATURES

- \* Fast switching
- \* Low Iwakage
- \* Low forward voltage drop

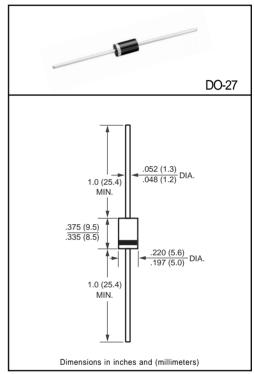
(R)

- \* High current capability
- \* High current surge
- \* High reliability

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rated flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Mounting position: Any
- \* Weight: 1.18 gram approx.

## CURRENT - 3.0 Ampere



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 C ambient temperature unless otherwise specified.

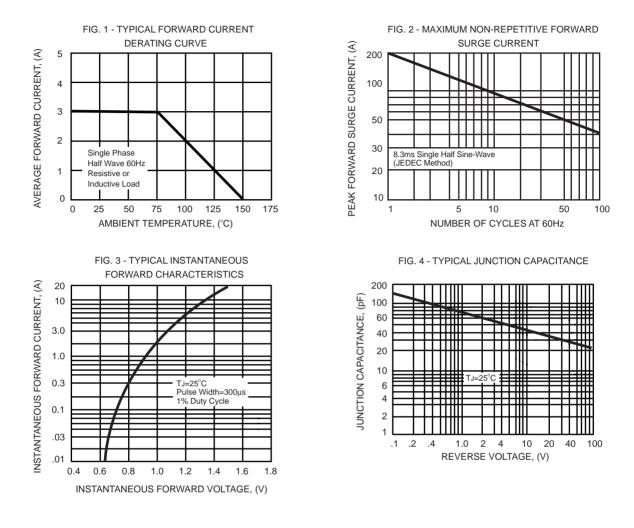
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	SYMBOL	BY396	BY397	BY398	BY399	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	200	400	800	Volts
Maximum RMS Voltage	Vrms	70	140	280	560	Volts
Maximum DC Blocking Voltage	VDC	100	200	400	800	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	3.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200				Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA=25 <sup>0</sup> C	10					
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T L = 55°C		150				— μAmps
Maximum Reverse Recovery Time (Note 1)	trr	150			500	nSec
Typical Junction Capacitance (Note 2)	CJ	65				pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150				٥C

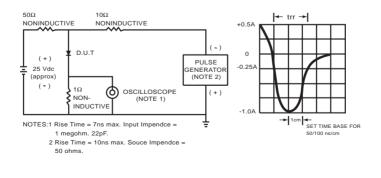
NOTES : 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0 volts

## **RATING AND CHARACTERISTIC CURVES (BY396 THRU BY399)**



### FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARAC TERISTIC





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