BY396 THRU BY399



3.0 AMP FAST RECOVERY RECTIFIERS



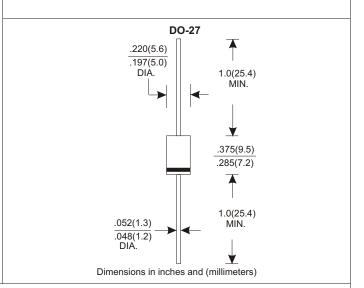
FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams

VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	By396	BY397	BY398	By399	UNITS
Maximum Recurrent Peak Reverse Voltage	100	200	400	800	V
Maximum RMS Voltage	70	140	280	560	V
Maximum DC Blocking Voltage	100	200	400	800	V
Maximum Average Forward Rectified Current					
.375"(9.5mm) Lead Length at Ta=75°C		3.0			
Peak Forward Surge Current, 8.3 ms single half sine-wave					
superimposed on rated load (JEDEC method)		200			Α
Maximum Instantaneous Forward Voltage at 3.0A		1.25			
Maximum DC Reverse Current Ta=25°C		5.0			А
at Rated DC Blocking Voltage Ta=100°C		150			
Maximum Reverse Recovery Time (Note 1)		150 250		nS	
Typical Junction Capacitance (Note 2)		60			pF
Operating and Storage Temperature Range Tj, TSTG		-65—+150			°C

NOTES

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.