3.0A FAST RECOVERY RECTIFIERS

Features

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

Mechanical Data

Cases: Molded plastic

Epoxy: UL 94V-0 rate flame retardant Lead: Axial leads, solderable per MIL-STS-202,

Method 208 guaranteed.

Polarity: Color band denotes cathode end.

DO-201AD 25.4 Min. 25.4 Min. Dimnsions in mm

Absolute Maximum Ratings ($T_a = 25^{\circ}C$)

		Symbol	Value	Unit
Recurrent Peak Reverse Voltage	BY396	V_{RRM}	100	V
	BY397	V_{RRM}	200	V
	BY398	V_{RRM}	400	V
	BY399	V_{RRM}	800	V
RMS Voltage	BY396	V _{RMS}	70	V
	BY397	V_{RMS}	140	V
	BY398	V_{RMS}	280	V
	BY399	V_{RMS}	560	V
DC Blocking Voltage	BY396	V _{DC}	100	V
	BY397	V_{DC}	200	V
	BY398	V_{DC}	400	V
	BY399	V_{DC}	800	V
Average Forward Rectified Current at T _A =55°C		I _{FAV}	3	А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	150	А
Instantaneous Forward Voltage @ 3 A		V _F	1.2	V
DC Reverse Current @ T_A =25°C at Rated DC Blockiing Voltage @ T_A =100°C			10	uA
		I _R	150	uA
Reverse Recovery Time (Note 1)		t _{rr}	250	ns
Typical Junction Capacitance (Note 2)		C _j	60	pF
Operating Temperature Range		T _j	-65 to +150	оС
Storage Temperature Range		Ts	-65 to +150	оС

- Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.
- Measured at 1MHz and Applied Reverse Voltage of 4.0V DC.



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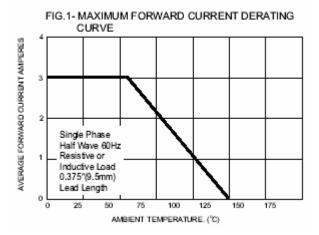
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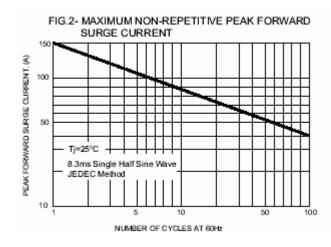
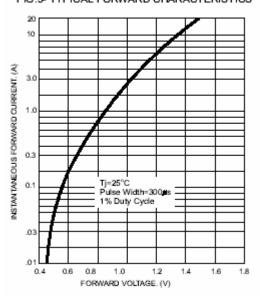


FIG.3- TYPICAL FORWARD CHARACTERISTICS



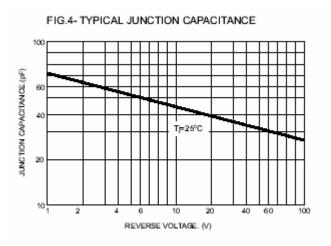
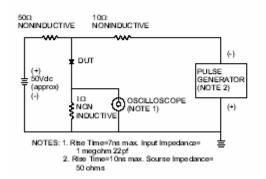
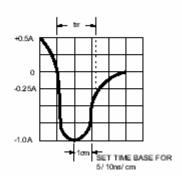


FIG.5- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM







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