

FR101 THRU FR107

1.0AMP. FAST RECOVERY RECTIFIER

FEATURES

- Fast switching
- Low leakage
- Low forward voltage drop
- High current capability
- High surge capability
- High reliability
- High temperature soldering guaranteed

260°C /1 0sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

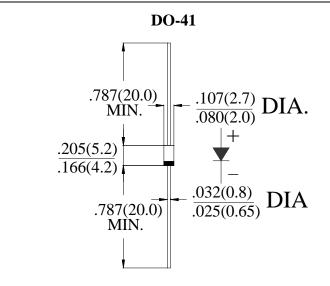
• Case: Molded plastic

• Epoxy: UL94V-0 rate flame retardant

• Lead: MIL-STD- 202E, Method 208 guaranteed

• Polarity:Color band denotes cathode end

• Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

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

Type Number	SYM	FR	FR	FR	FR	FR	FR	FR	units
	BOL	101	102	103	104	105	106	107	
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 Current.375"(9.5mm) lead length @Ta =55°C	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	30							A
Maximum Instantaneous forward Voltage at 1.0A DC	V_F	1.3							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I_R	5.0 100.0							μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150 250 500				00	nS		
Typical Junction Capacitance (Note 2)	C_J	15							pF
Storage Temperature	T_{STG}	-55 to +150							°C
Operation JunctionTemperature	T_J	-55 to +125							°C

Note:

1.Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

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

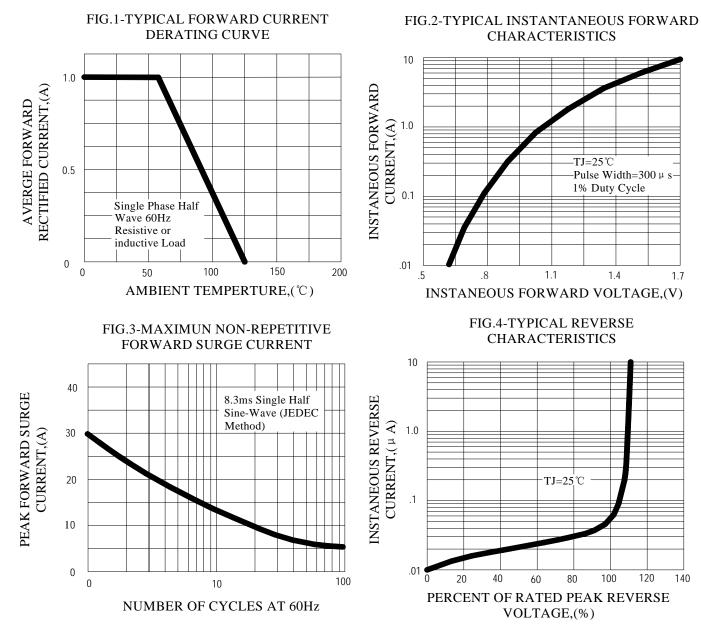


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC

