

# FDB101 thru FDB107

# SURFACE MOUNT FAST RECOVERY **GLASS PASSIVATED RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

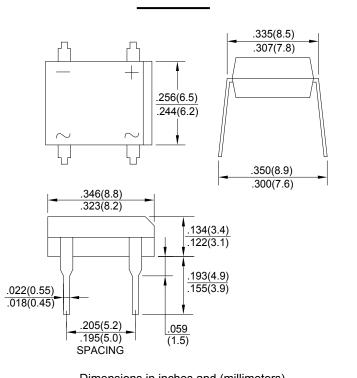
DB

#### **FEATURES**

- Fast switching for high efficiency
- Low cost
- Diffused junction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

### **MECHANICAL DATA**

- ●Polarit:As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

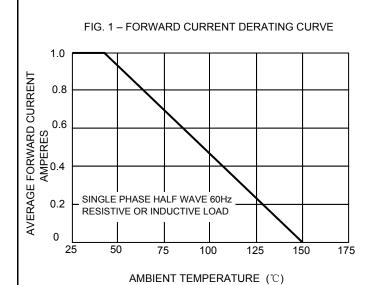
For capacitive load, derate current by 20%

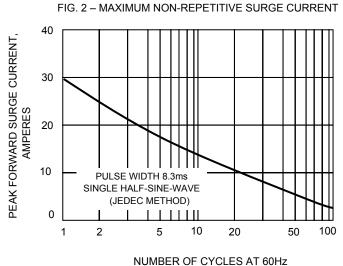
CHARACTERISTICS	SYMBOL	FDB 101	FDB 102	FDB 103	FDB 104	FDB 105	FDB 106	FDB 107	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward  Rectified Current @Ta=40 ℃	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30							А
Peak Forward Voltage at 1.0A DC	VF	1.3						V	
Maximum DC Reverse Current       @Ta=25℃         at Rated DC Blocking Voltage       @Ta=125℃	lR	5.0 500							μА
Maximum Reverse Recovery Time(Note 1)	Trr	150				250	500		nS
Typical Thermal Resistance (Note2)	RөJA	40							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$ C

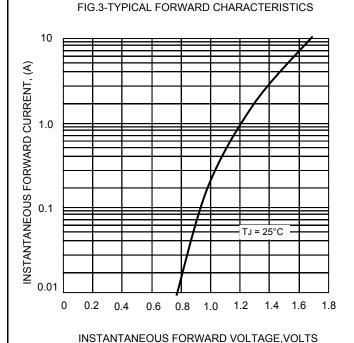
NOTES: 1.Reverse Revcovery Tes Conditions: IF=0.5A,IR=1A,IRR=0.25A.

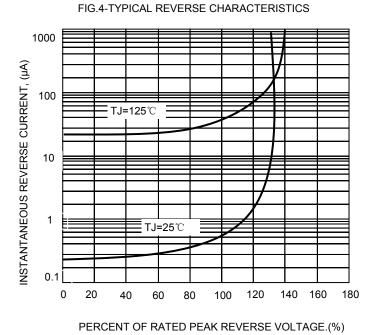
- 2.Thermal resistance for junction to ambient and from Junction to Lead Mounted on P.C.B.with 0.5"\*0.5"(13mm\*13mm) Coppet Pads.
- 3.The typical data above is for reference only(典型值仅供参考).











The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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