

EDB101S THRU EDB106S

GLASS PASSIVATED SUPER FAST SILICON SURFACE MOUNT BRIDGE RECTIFIER **VOLTAGE RANGE 50 to 400 Volts CURRENT 1.0 Ampere**

FEATURES

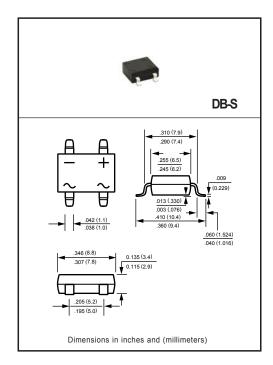
- * Surge overload rating 40 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 1.0 gram

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

- WAXINOW IXATINGS (At 1A = 23 C unless otherwise noted)								
RATINGS	SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	EDB106S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	Volts
Maximum Average Forward Output Current at T _A = 55°C	Io	1.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30						Amps
Typical Thermal Resistance (Note 3)	R _{θJA}	38						°C/W
	Røjl	12						
Typical Junction Capacitance (Note 2)	CJ	15 10				10	pF	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						٥C

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	EDB106S	UNITS
Maximum Forward Voltage at 1.0A DC		V_{F}	1.05 1.35					35	Volts
Maximum Reverse Current at Rated	@T _A = 25°C	le .		5.0					uAmps
DC Blocking Voltage per element	@T _A = 100°C	IR	100						uAmps
Maximum Reverse Recovery Time (Note 1)		trr	50					nSec	

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. 3.Thermal Resistance : Mounted on PCB.

2007-08

RATING AND CHARACTERISTICS CURVES (EDB101S THRU EDB106S)

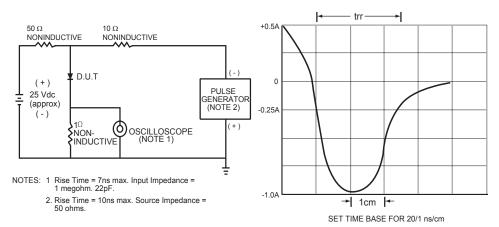
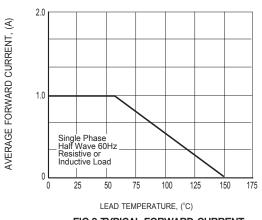
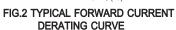


FIG.1 TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





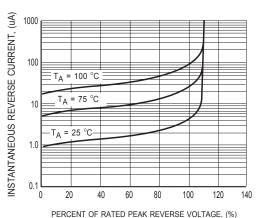
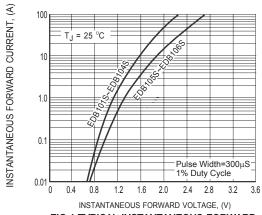


FIG.3 TYPICAL REVERSE CHARACTERISTICS

RATING AND CHARACTERISTICS CURVES (EDB101S THRU EDB106S)



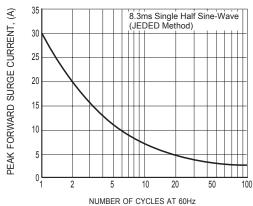
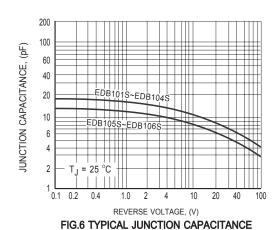


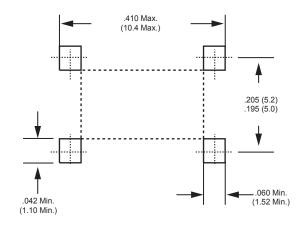
FIG.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





Mounting Pad Layout



Dimensions in inches and (millimeters)



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