Surface Mount Bridge Rectifier

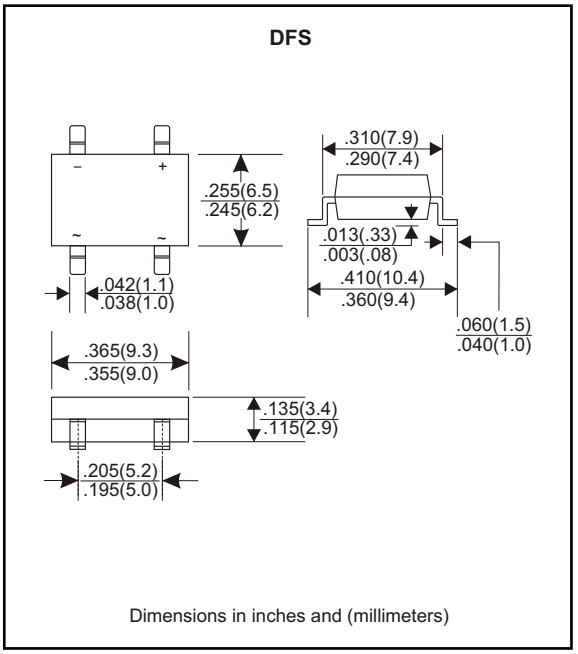
Formosa MS

DB101S THRU DB107S

Glass passivated type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of MIL-S-19500 / 228
- High surge current capability
- Ideal for printed circuit board



Dimensions in inches and (millimeters)

Mechanical data

Case : Molded plastic, DFS
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Marked on body
Mounting Position : Any
Weight : 1.0 gram

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

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I_O			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I_{FSM}			50	A
Reverse current	V_R = V_{RRM} T_A = 25°C	I_R			10	uA
	V_R = V_{RRM} T_A = 125°C				500	uA
Storage temperature		T_{STG}	-55		+150	°C

SYMBOLS	MARKING CODE	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature (°C)
DB101S	DB101S	50	35	50	1.1	-55 to +125
DB102S	DB102S	100	70	100		
DB103S	DB103S	200	140	200		
DB104S	DB104S	400	280	400		
DB105S	DB105S	600	420	600		
DB106S	DB106S	800	560	800		
DB107S	DB107S	1000	700	1000		

*1 Repetitive peak reverse voltage
*2 RMS voltage
*3 Continuous reverse voltage
*4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (DB101S THRU DB107S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

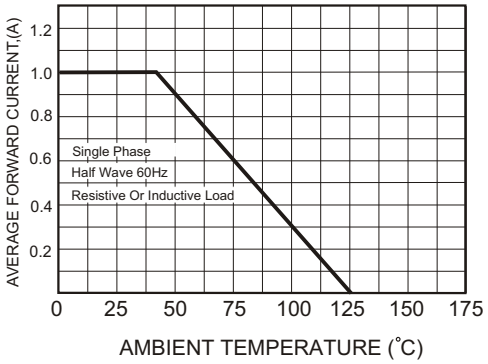


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

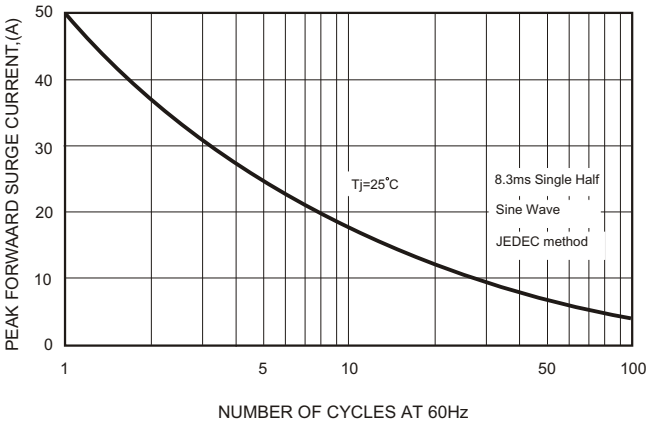


FIG.3-TYPICAL FORWARD CHARACTERISTICS

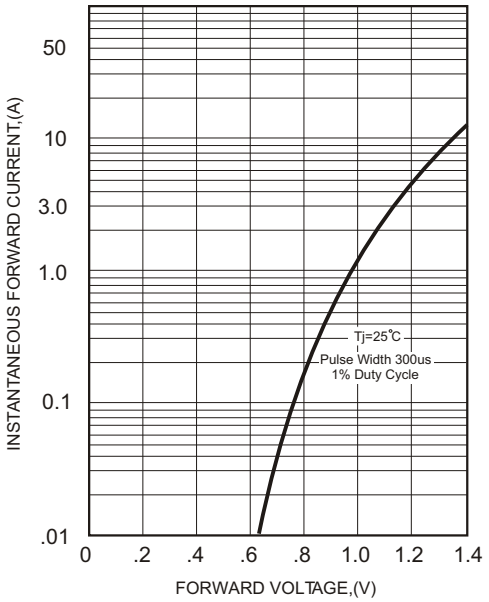


FIG.4-TYPICAL REVERSE CHARACTERISTICS