

4.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V



DBM

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 135 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3kg)tension

Mechanical Data

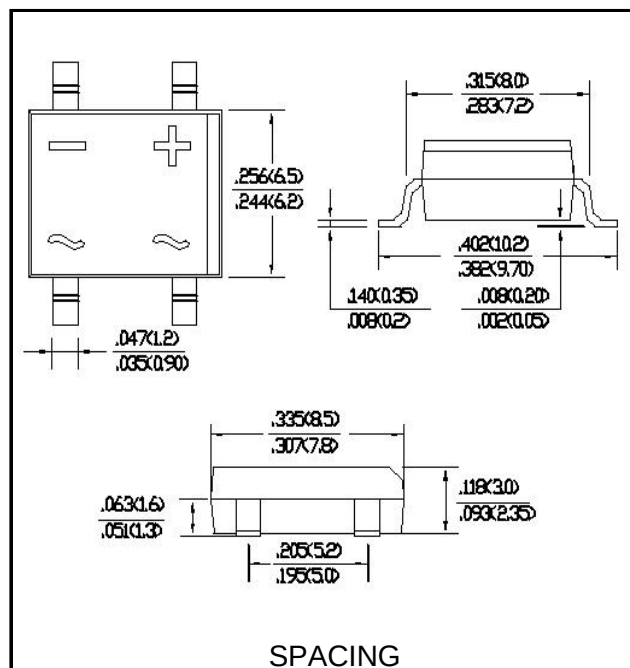
Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750, Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.011ounce,0.30 grams(approx)



Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	DB401S	DB402S	DB403S	DB404S	DB405S	DB406S	DB407S	unit
		DB4005S	DB401S	DB402S	DB404S	DB406S	DB408S	DB410S	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at TA=40°C	I _{F(AV)}	4.0							A
Maximum instantaneous forward voltage drop per diode at I _{FM} =2.0A	V _F	1.0							V
Surge(non-repetitive) forward current@60HZ sine wave,1cycle. T _j =25°C	I _{FSM}	135							A
Rating for fusing(t<8.3ms)	I ² t	76							A ² sec
Between Junction and Ambient(1)	R _{θJA}	55							°C/w
Maximum DC reverse current at ratde TA=25°C	I _R	5							μ A
DC blocking voltage per diode TA=125°C		100							
Operating j temperature range	T _J	-55to+150							°C
Storage temperature range	T _{STG}	-55to+150							°C

Notes: (1) Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5(13*13mm)copper pads

Rating and Characteristic Curves(TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

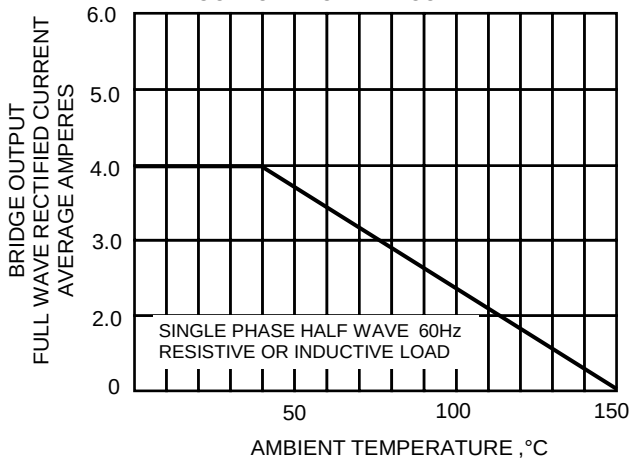


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

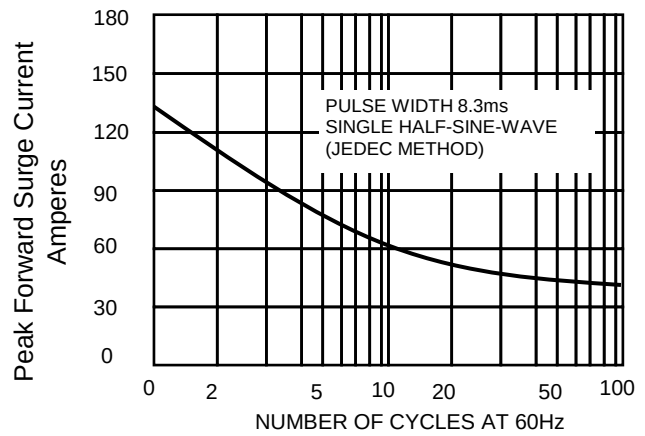


FIG.3-TYPICAL REVERSE CHARACTERISTICS

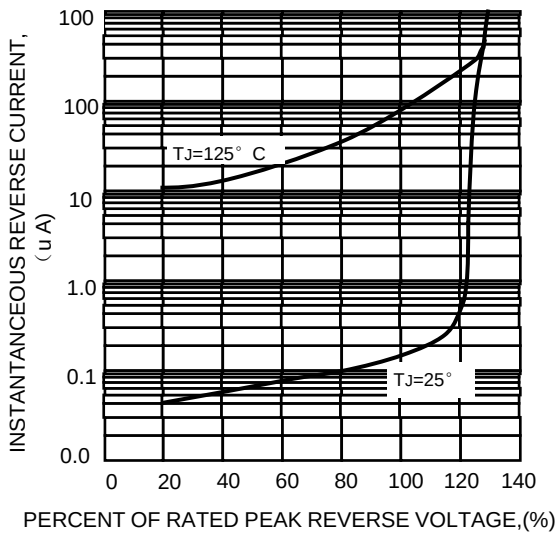
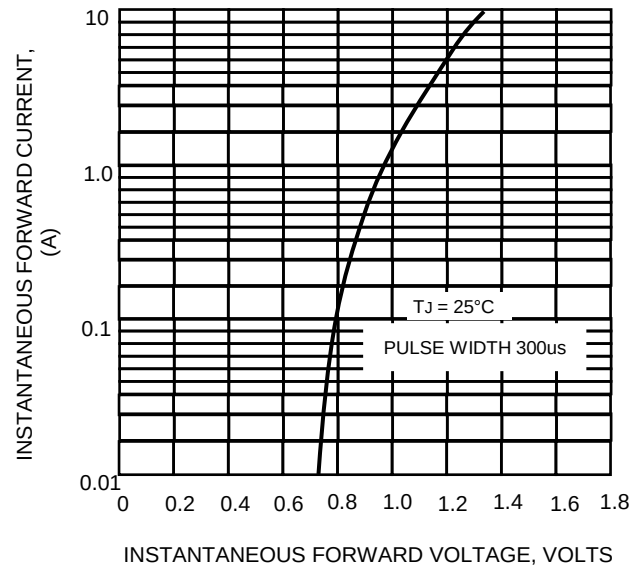


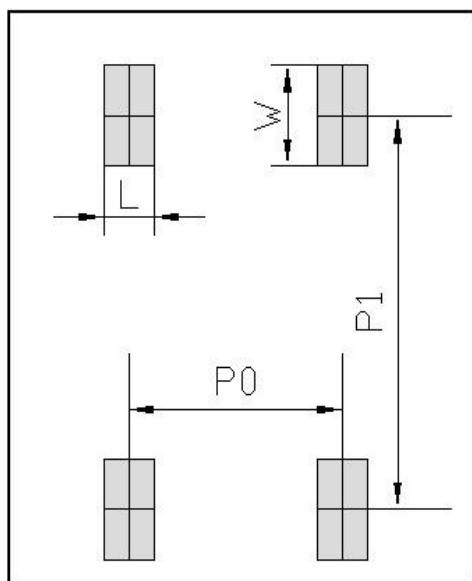
FIG.4-TYPICAL FORWARD CHARACTERISTICS



Ordering Information(Example)

PREFREN P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DB401S~DB407S DB4005S~DB410S	Approximate 0.30	50	5000	20000	TUBE
DB401S~DB407S DB4005S~DB410S	Approximate 0.30	1500	3000	21000	REEL

Suggested pad layout



Dimensions in millimeters

Unit:mm	
DIM	MIN
P0	5.12
P1	8.73
L	1.2
W	2.22