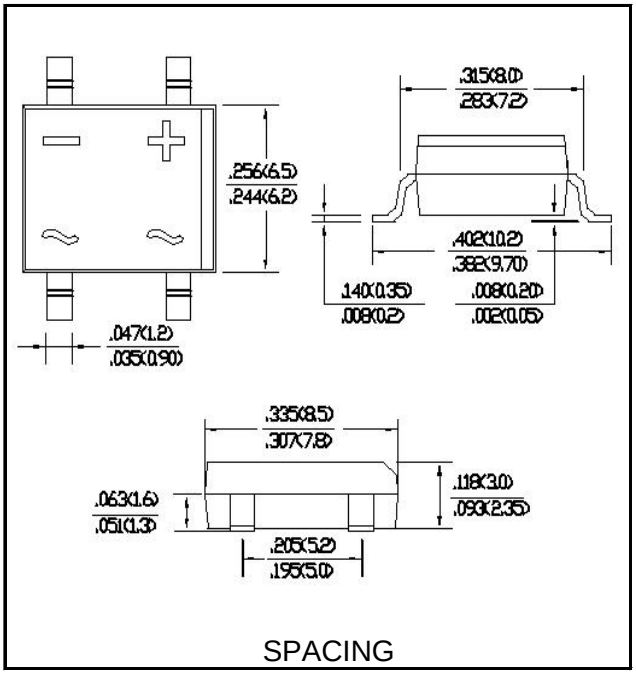
DB401S thru DB407S
DB4005S DB410S

4.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifiter Reverse Voltage 50V to 1000V

DBM



SPACING

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℃/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℃ ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.
For Capacitive load derate current by 20%

Parameter	Symbol	DB401S DB4005S	DB402S DB401S	DB403S DB402S	DB404S DB404S	DB405S DB406S	DB406S DB408S	DB407S DB410S	unit
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℃	$I_{F(AV)}$	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. Tj=25℃	I_{FSM}	135							A
Rating for fusing(t<8.3ms)	I^2t	76							A^2sec
Between Junction and Ambient(1)	$R_{\theta JA}$	55							℃/w
Maximum DC reverse current at ratde TA=25℃ DC blocking voltage per diode TA=125℃	I_R	5 100							μ A
Operating j temperature range	TJ	-55to+150							℃
Storage temperature range	T_{STG}	-55to+150							℃

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℃ Uniless otherwise noted)

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

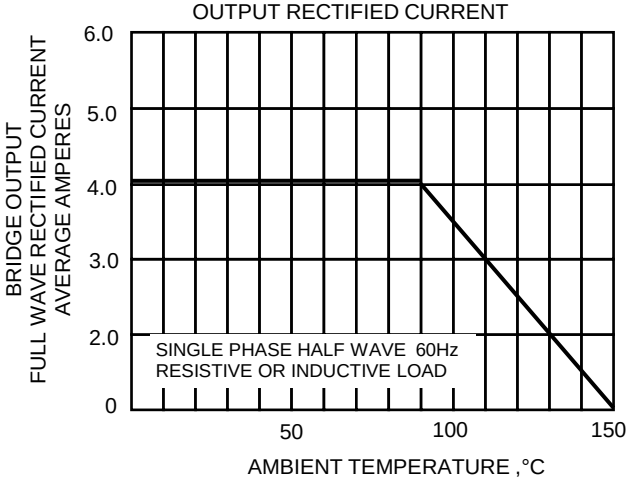


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

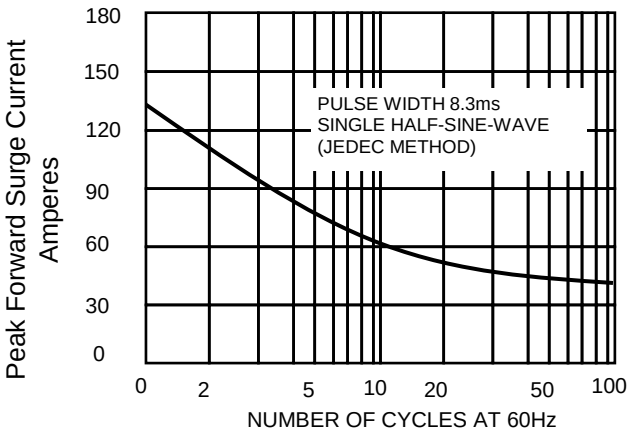


FIG.3-TYPICAL REVERSE CHARACTERISTICS

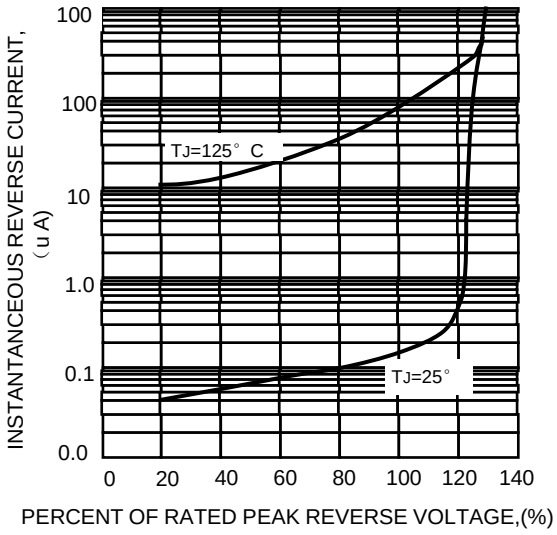
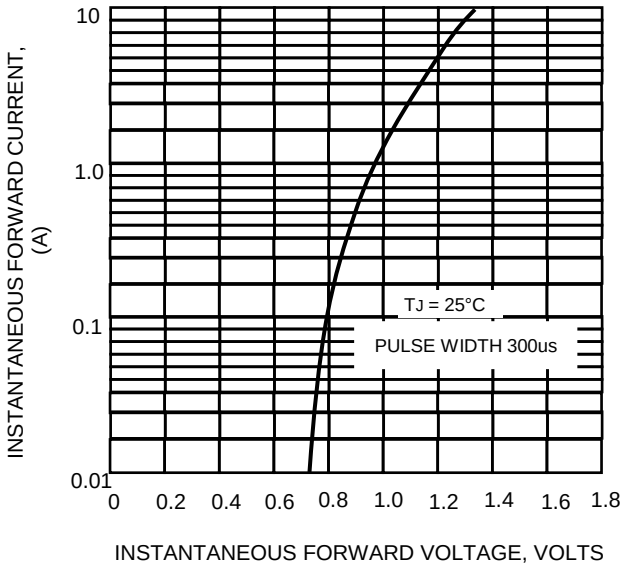


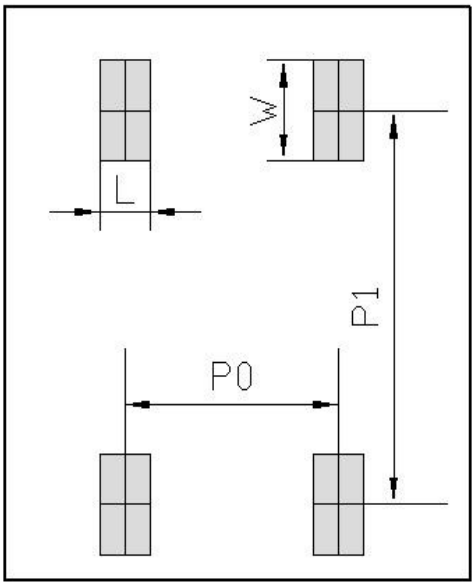
FIG.4-TYPICAL FORWARD CHARACTERISTICS



Ordering Information(Example)

PREFFREN 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