

3.0A Single-Phase GLass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50V to 1000V



DFS

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 50 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3kg)tension

Mechanical Data

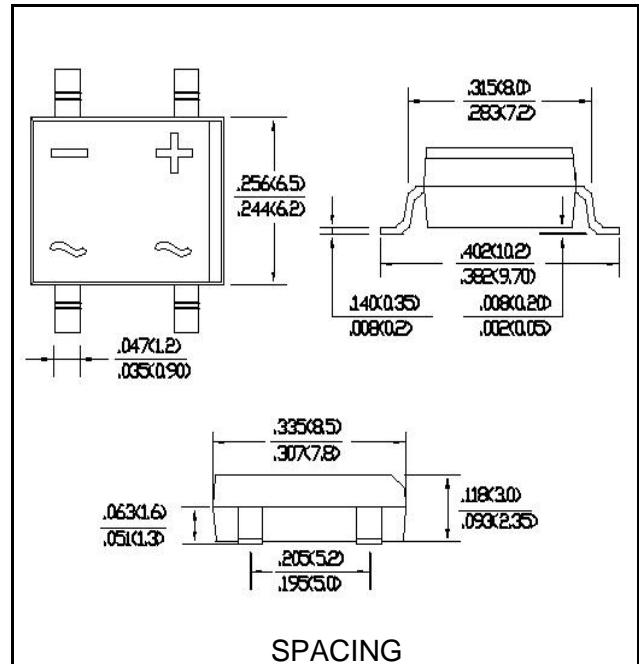
Case:Molded plastic

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

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.01ounce,0.3 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	DF3005S	DF301S	DF302S	DF304S	DF306S	DF308S	DF310S	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at TA=40°C	IF(AV)								A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM								A
Rating for fusing($t<8.3ms$)	I ² t								A ² sec
Typical thermal resistance per element(1)	ReJA								°C/W
Typical thermal resistance per element(2)	C _j								PF
Operating junction and stroage temperature range	T _j , T _{STG}								°C

Electrical Characteristics

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

For Capacitive load derate current by 20%

Parameter	Symbol	DF3005S	DF301S	DF302S	DF304S	DF306S	DF308S	DF310S	unit
Maximum instantaneous forward voltage drop per leg at 3.0A	VF								V
Maximum DC reverse current at ratde TA=25°C DC blocking voltage per element TA=125°C	IR								UA

Notes:(1)Thermal resistance from Junction to Ambent on P.C.board mounting.

(2)Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

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

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

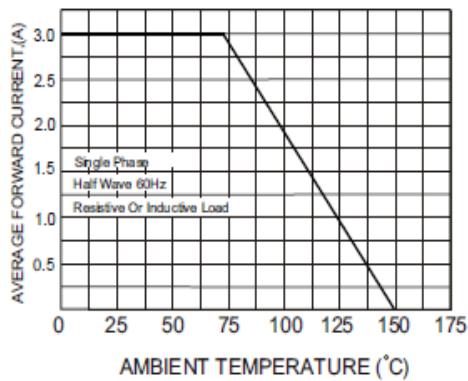


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

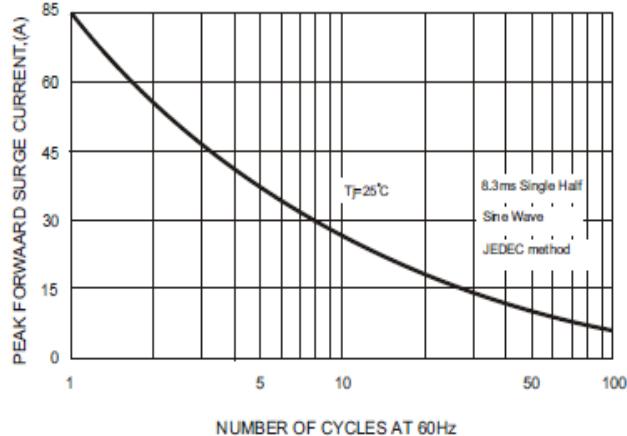


FIG.3-TYPICAL FORWARD CHARACTERISTICS

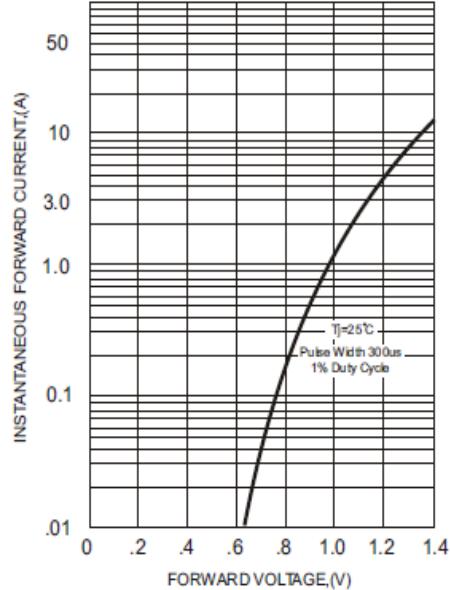


FIG.4-TYPICAL REVERSE CHARACTERISTICS

