



Single-Phase Bridge Rectifier

Features

- Low cost
- This series is UL recognized under component index, File number E1277707
- Ideal for printed circuit board
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length at 5lbs. (2.3kg)tension
- RoHS and REACH Compliance



Mechanical Data

Case:	Transfer molded plastic
Polarity	/
Terminals:	Lead solderable per MIL-STD-202E method 208C
Mounting position:	Any
Weight:	0.22 ounce, 6.21 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

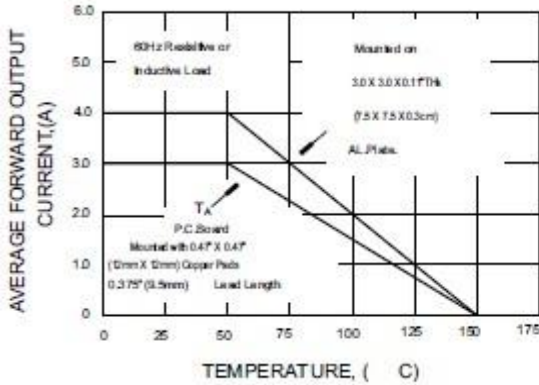
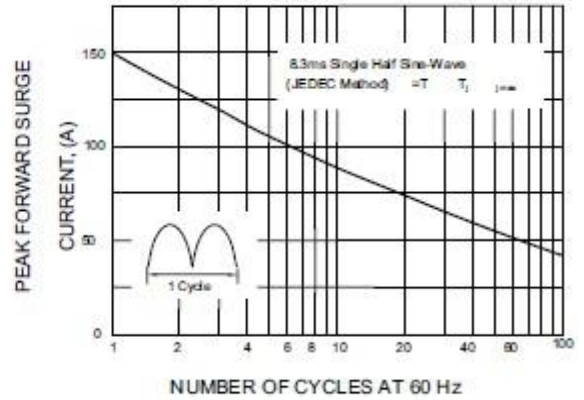
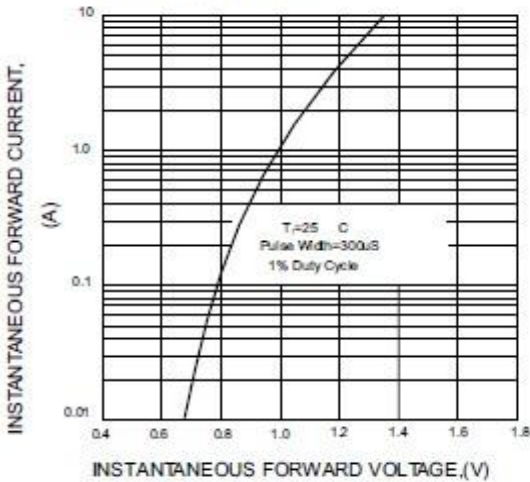
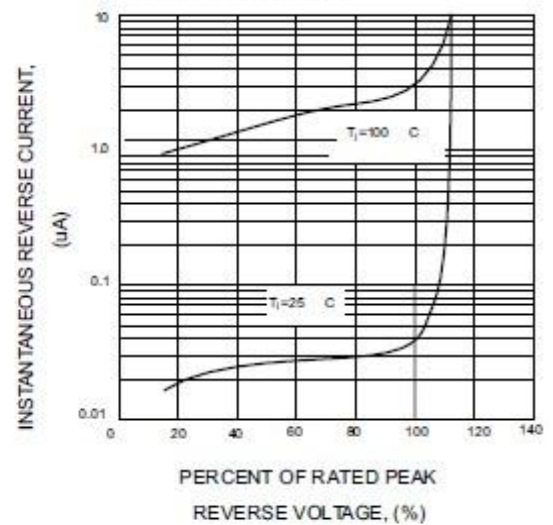
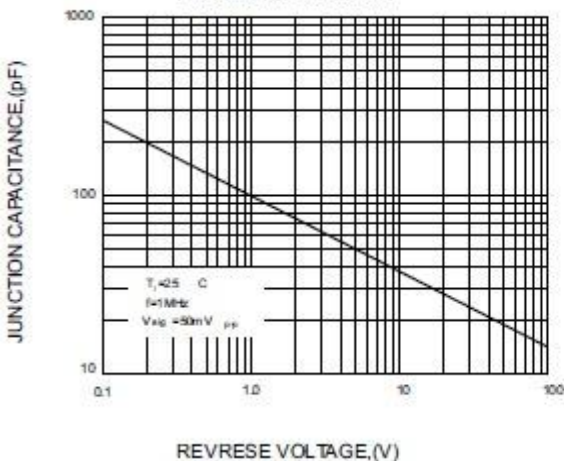
Symbol	Description	RS401	RS402	RS403	RS404	RS405	RS406	RS407	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current	4.0 / 3.0							A	TC=50°C (Note 2) TA=50°C (Note 3)
IFSM	Peak Forward Surge Current	150							A	JEDEC method
TJ,TSTG	Operating and Storage Temperature Range	-65 to +150, -65 to +150							°C	
I2t	Rating for Fusing	93							A2s	T<8.3mS

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

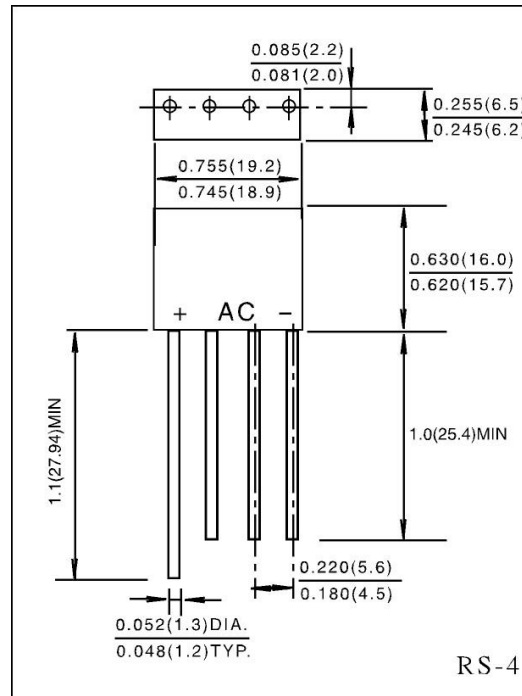
Symbol	Description	RS401	RS402	RS403	RS404	RS405	RS406	RS407	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0							V	Drop per Bridge element 4.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	10							μA	TA=25°C
		1.0							mA	TA=100°C
Rθ-JA	Typical Thermal Resistance	20							°C/W	Note 2
CJ	Typical Junction Capacitance	55							pF	Note 1

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Unit mounted on 3.0" x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3cm) Al plate.
3. Unit mounted on PC Board with 0.5" x 0.5" (12mm x 12mm) copper pads, 0.375 (9.5mm) lead length.

RS401 ~ RS407
RATINGS AND CHARACTERISTIC CURVES RS401 THRU RS407
**FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT**

**FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT**

**FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT**

**FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT**

**FIG.5-TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT**


Dimensions in inches (mm)



Contact us:

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