

## GLASS PASSIVATED BRIDGE RECTIFIERS

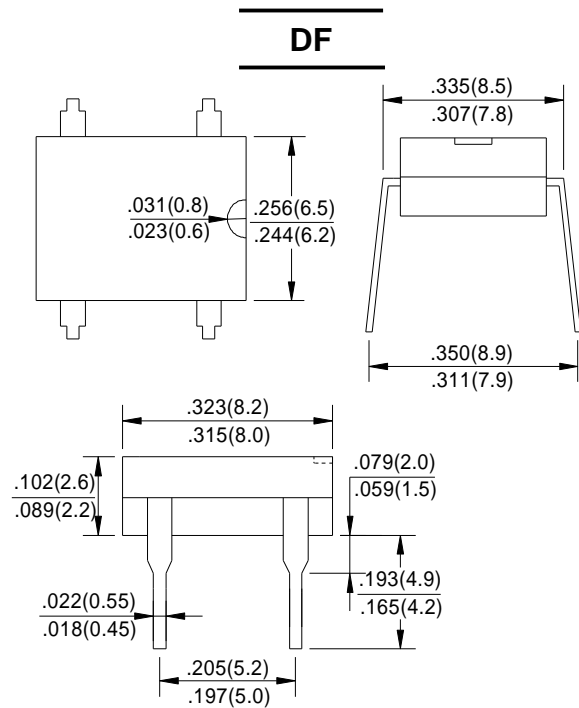
REVERSE VOLTAGE - **1400**Volts  
FORWARD CURRENT - **2.0** Amperes

### FEATURES

- Rating to 1400V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

### MECHANICAL DATA

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	DF214	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1400	V
Maximum RMS Voltage	V <sub>RMS</sub>	980	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	1400	V
Maximum Average Forward Rectified Current @ T <sub>A</sub> =40°C	I <sub>(AV)</sub>	2.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC .Method)	I <sub>FSM</sub>	60	A
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =25°C @ T <sub>J</sub> =125°C	I <sub>R</sub>	10 500	μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	15	A <sup>2</sup> s
Typical Junction capacitance Per Element(Note1)	C <sub>J</sub>	25	pF
Typical Thermal Resistance (Note2)	R <sub>θJA</sub>	40	°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance from junction to ambient mounted on P.C.B with 0.5\*0.5"(13\*13mm) copper pads.

FIG.1-DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

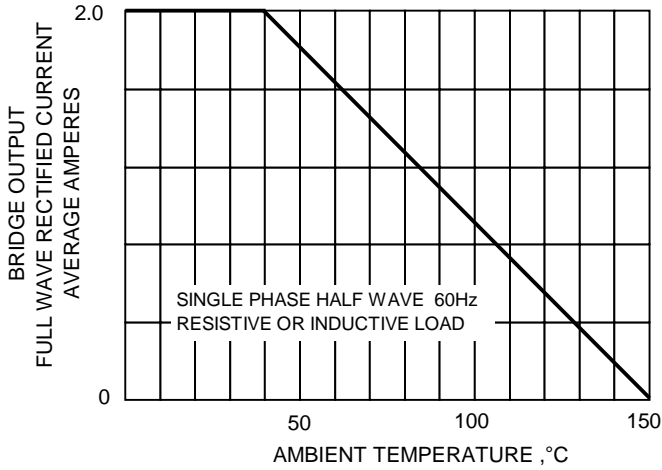


FIG.2-MAXIMUM NON-REPETITIVE PEAK  
FORWARD SURGE CURRENT

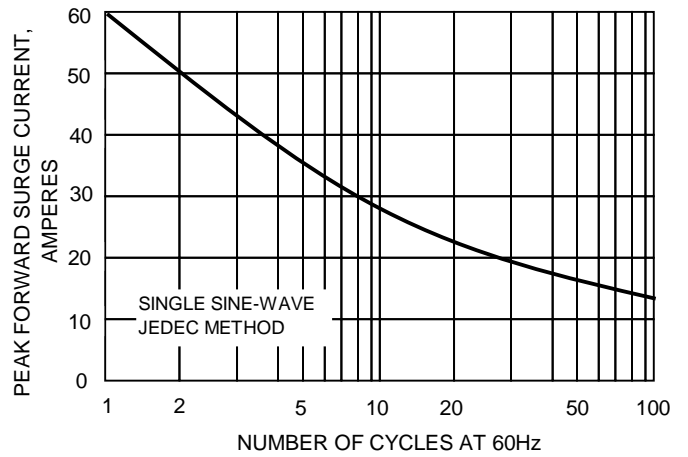


FIG.3-TYPICAL JUNCTION CAPACITANCE

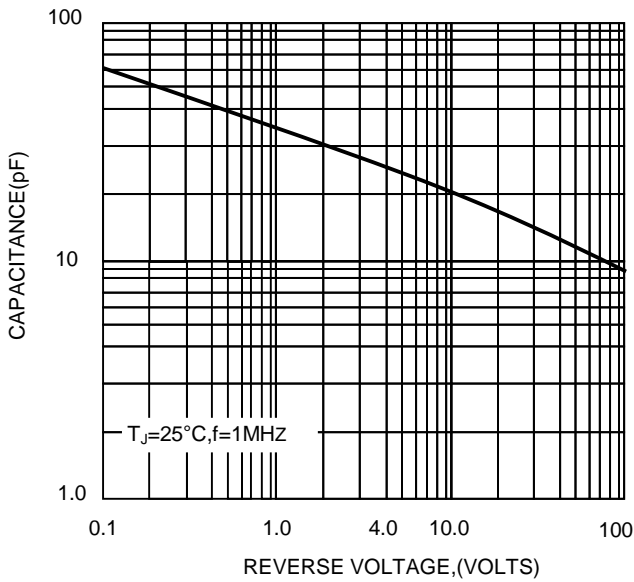


FIG.4-TYPICAL FORWARD CHARACTERISTICS

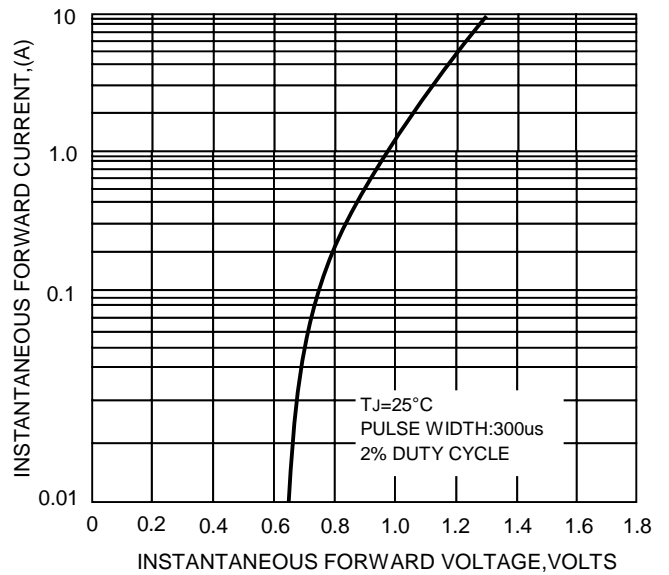


FIG.5-TYPICAL REVERSE CHARACTERISTICS

