2.0A Glass Passivated Bridge Rectifier

DFMS

Features

- Glass passivated chip junction
- Low leakage
- High surge current capability
- Ideal for printed circuit boards
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260˚C/10 seconds at 5lbs.(2.3kg) tension
- Small size, simple installation
- RoHS compliant

Mechanical Data

Case:	DFMS, Molded plastic body over passivated junction
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-202, Method 208
Polarity:	As marked on case
Weight:	0.014 ounce, 0.4 gram

Maximum Ratings And Electrical Characteristics (T_{amb}=25˚C)

Symbols	Parameter	DF 2005S	DF 201S	DF 202S	DF 204S	DF 206S	DF 208S	DF 2010S	DF 2012S	DF 2014S	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	1200	1400	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	840	980	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1200	1400	V	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	2.0									A	T_A=40° C
I_{FSM}	Peak Forward Surge Current	50									A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)

Symbols	Parameter	DF 2005S	DF 201S	DF 202S	DF 204S	DF 206S	DF 208S	DF 2010S	DF 2012S	DF 2014S	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage Drop per leg	1.1							1.3		V	I_F=2.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	10									µA	T_A=25°C
		500										T_A=125°C
$R_{\theta JA}$	Typical Thermal Resistance per leg	40									˚C/W	Note 1
$R_{\theta JL}$		15										
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150									˚C	

Note: 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.51 x 0.51" (13 x13mm) copper pads.

Rating and Characteristic Curves

Fig.1- Maximum Derating Curve for Output Rectified Current

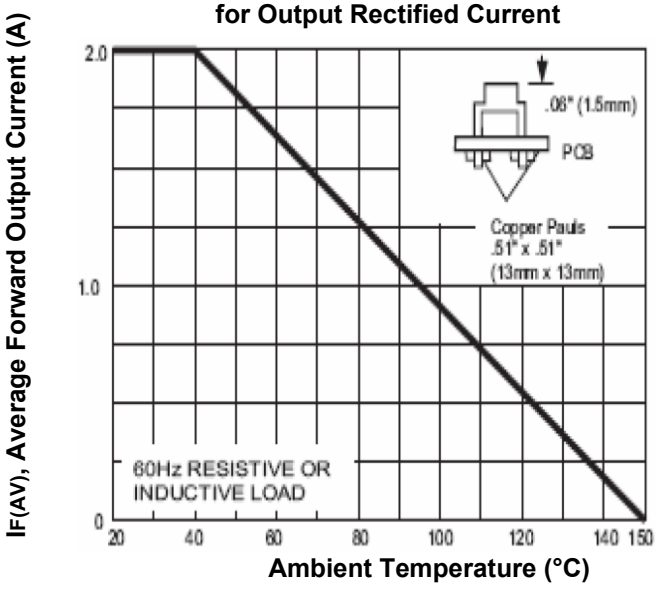


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg

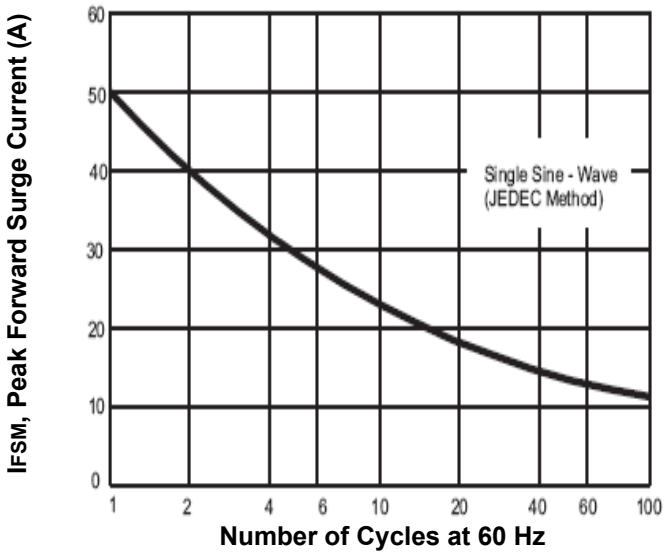


Fig.3-Typical Forward Characteristics per leg

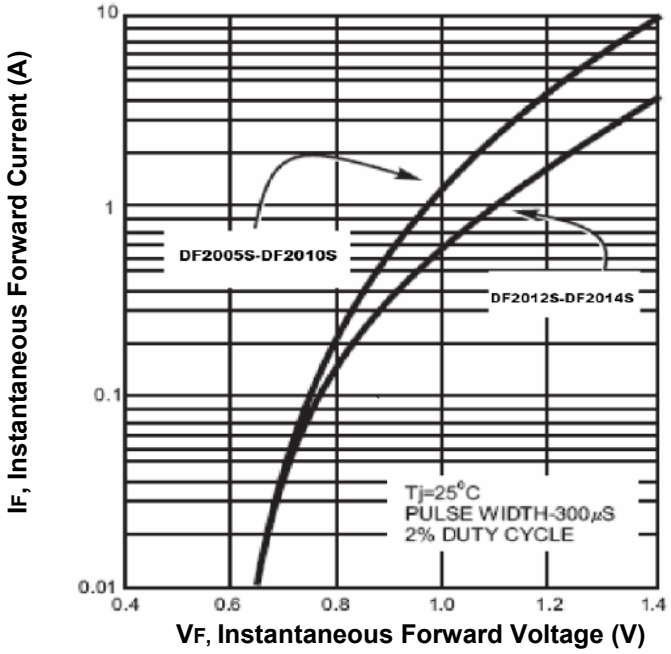


Fig.4-Typical Reverse Leakage Characteristics per leg

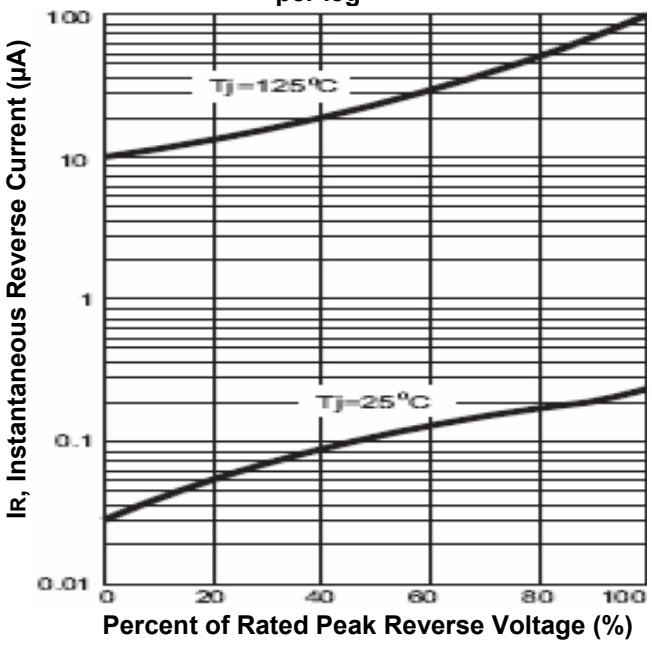
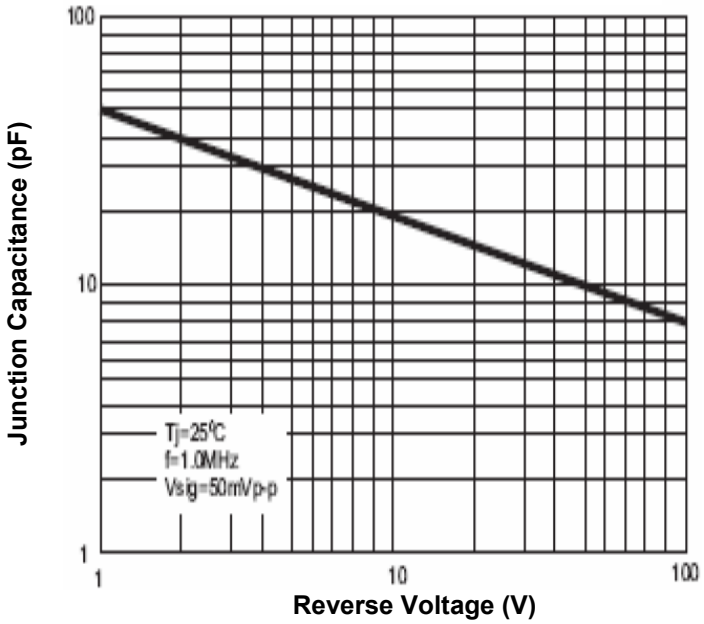
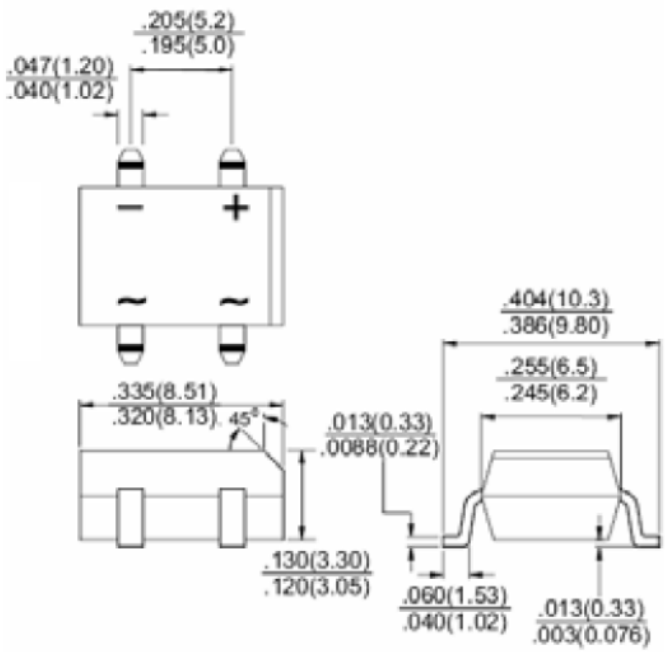


Fig.5- Typical Junction Capacitance



Dimensions in inch (mm)



DFMS

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