

## 1.0A Surface Mount Bridge Rectifier

### Features

- Glass passivated chip junction
- Low forward voltage drop
- High surge current capability
- Ideal for printed circuit boards
- Designed for surface mount application
- High temperature soldering guaranteed: 260°C/10 seconds  
0.375" (9.5mm) lead length at 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718



DFMS



### Mechanical Data

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

### Maximum Ratings And Electrical Characteristics (T<sub>amb</sub>=25°C)

Symbol	Description	DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	DF 12S	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	1200	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	840	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1200	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	1.0								A	T <sub>A</sub> =40° C Note 1
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	50								A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)

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## DF005S – DF12S

Symbol	Description	DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	DF 12S	Unit	Conditions	
$I_t$	Rating for Fusing (t<8.3ms)	10									A <sup>2</sup> sec	
$V_F$	Maximum Instantaneous Forward Voltage Drop per leg	1.1									V	IF=1.0A
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0									μA	TA=25°C
		500										TA=125°C
$C_J$	Typical Junction Capacitance per leg	25									pF	VR=4V, f=1MHz
$R_{\theta JA}$	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.Units mounted on P.C.B. with 0.51 x 0.51" (13 x 13mm) copper pads.

### Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

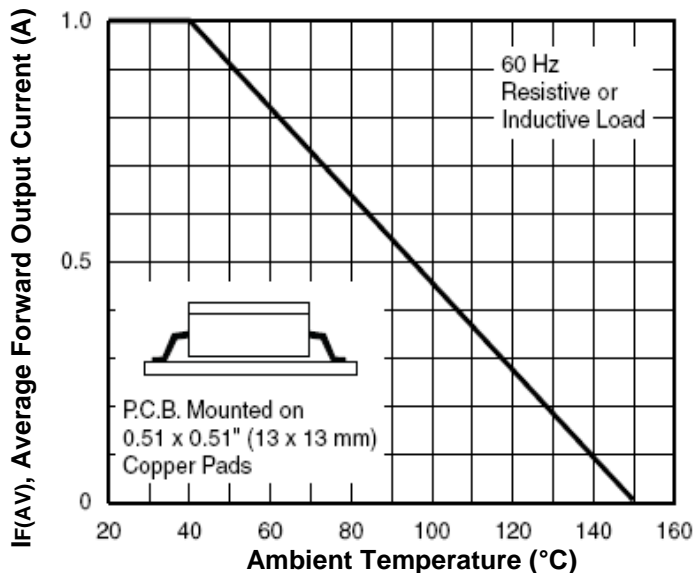
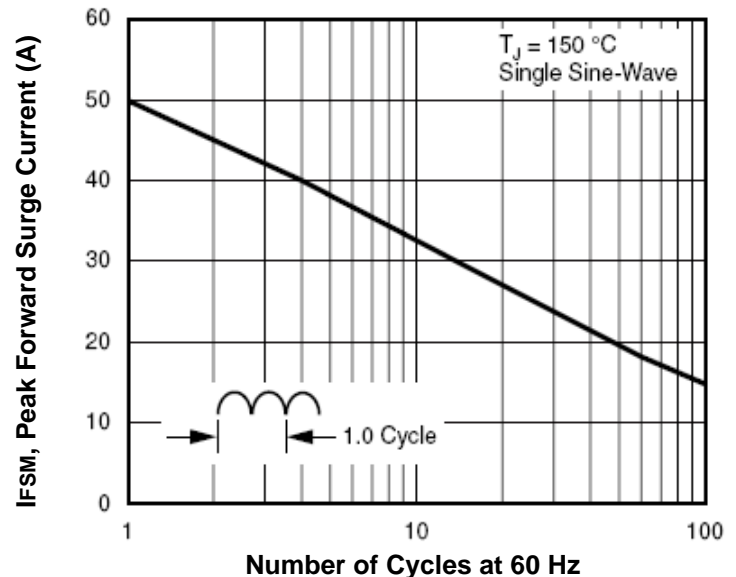


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



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Fig.3-Typical Forward Characteristics per leg

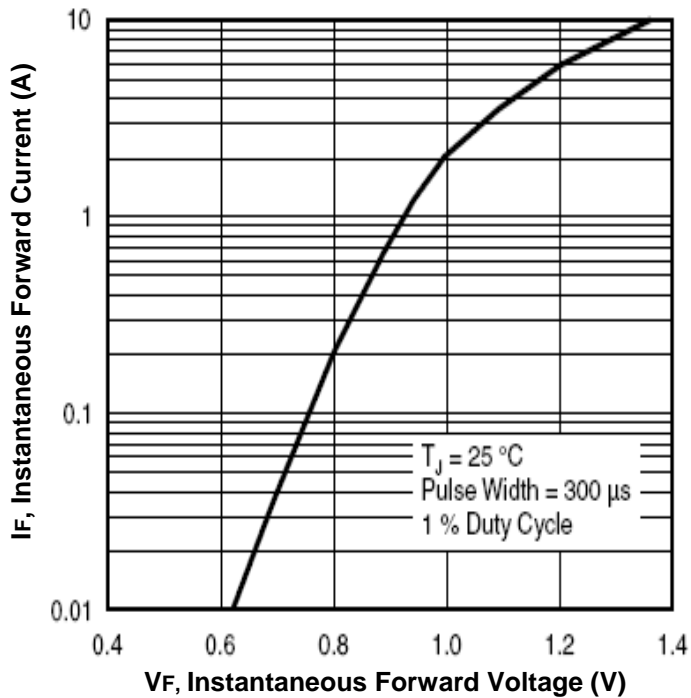


Fig.4-Typical Reverse Leakage Characteristics per leg

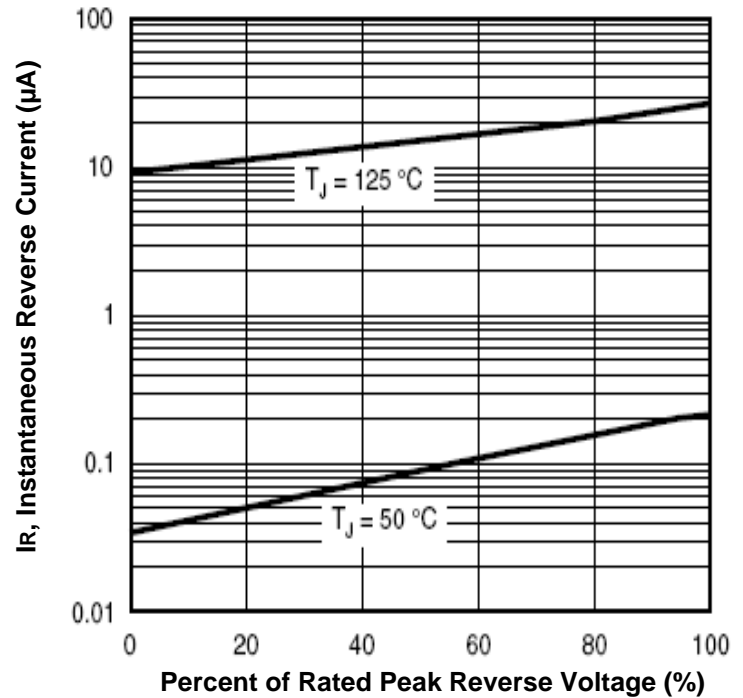
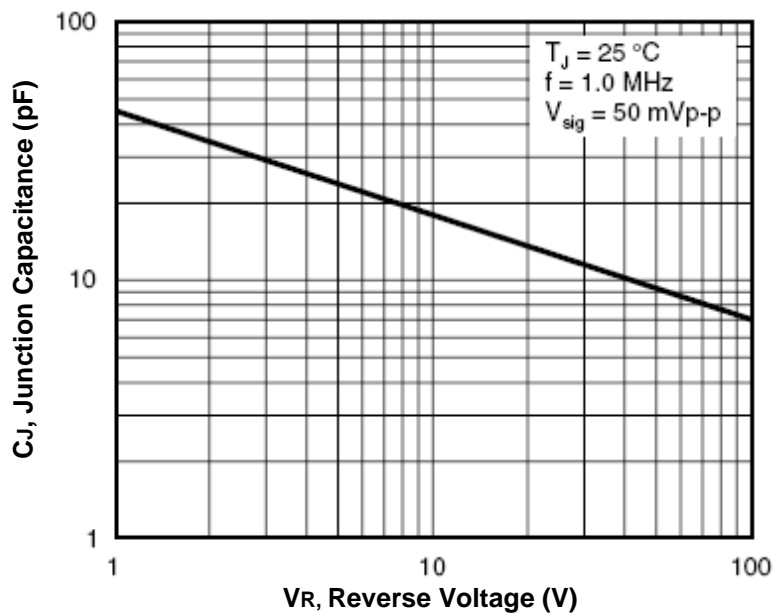


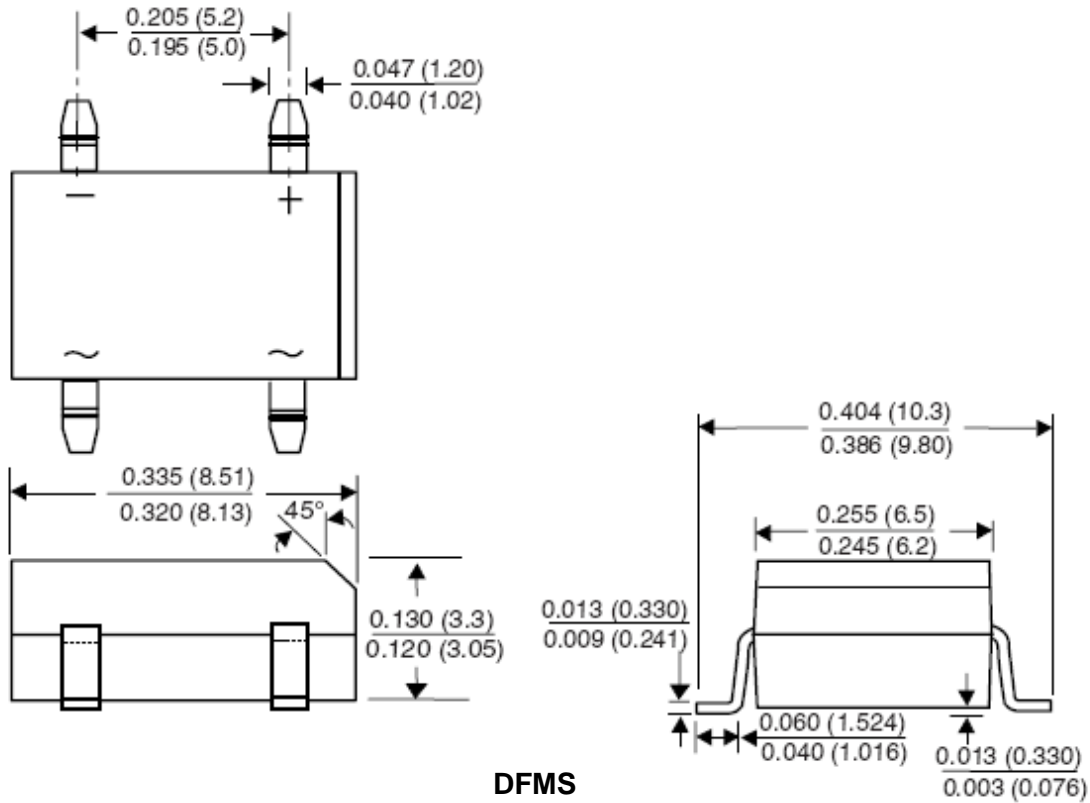
Fig.5- Typical Junction Capacitance per leg



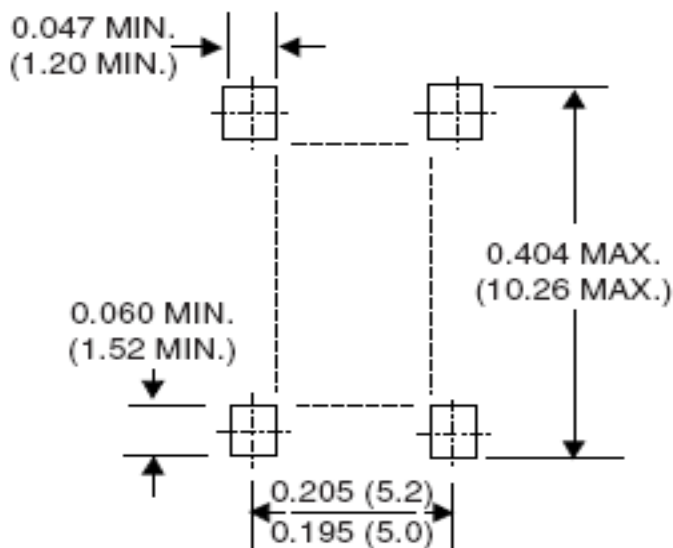
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## Dimensions in inch (mm)



## Mounting Pad Layout in inch (mm)



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## How to contact us

### USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: [taitron@taitroncomponents.com](mailto:taitron@taitroncomponents.com)

Http://[www.taitroncomponents.com](http://www.taitroncomponents.com)

### TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

### TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027