FAIRCHILD SEMICONDUCTOR® DFB2005 - DFB20100 Glass Passivated Bridge Rectifiers Features • UL certificate # E326243

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Surge overload rating to 250 amperes peak
- High case dielectric strength of 2000 V<sub>RMS</sub>
- · Isolated voltage from case to lead over 2500 volts

Symbol	Parameter	Value							
		DFB20 05***	DFB20 10***	DFB20 20***	DFB20 40***	DFB20 60	DFB20 80***	DFB20 100***	Units
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
V <sub>RMS</sub>	Maximum RMS Voltage	35	70	140	280	420	560	700	V
V <sub>DC</sub>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
I <sub>(AV)</sub>	Maximum Average Forward Rectified Current	20			А				
I <sub>FSM</sub>	Peak Forward Surge Current (8.3mS Single Half-wave)	250			А				
$R_{ ext{ heta}JC}$	Typical Thermal Resistance**	0.8			°C/W				
Т <sub>Ј</sub>	Operating Temperature Range	-55 to +150			°C				
T <sub>STG</sub>	Storage Temperature Range	-55 to +150			°C				

 $^{*}$  Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

\*\* Device mounted on 4" x 5" x 0.25" Al-plate heat sink.

\*\*\* In development. Please contact Fairchild Semiconductor for more information.

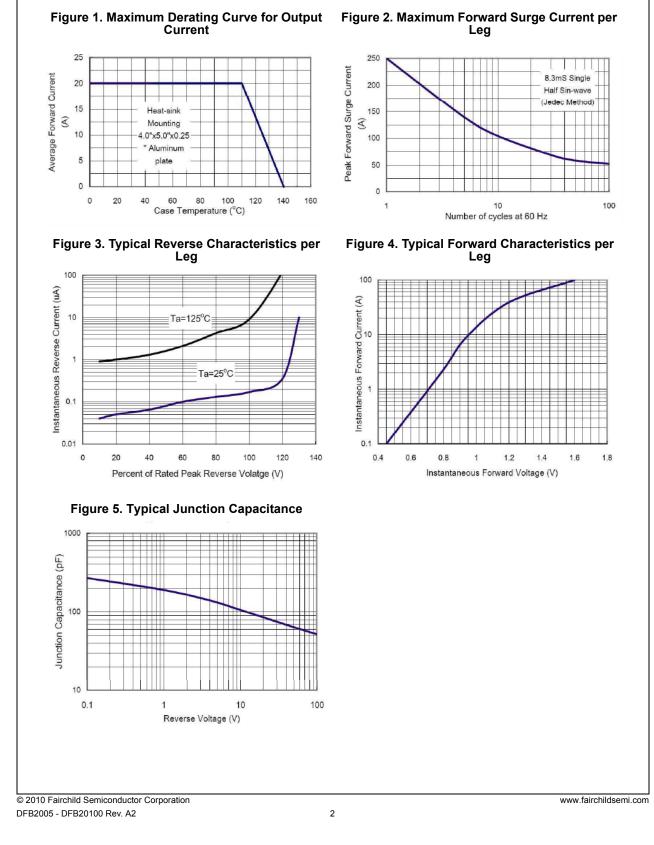
## Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Symbol	Parameter	Test condition	Value	Unit
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	@ 10A @ 20A	1.0 1.1	V
I <sub>R</sub>	Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 125°C	10 500	μA
l <sup>2</sup> t	Rating for fusing (t < 8.3mS)		259	A <sup>2</sup> S
Cj	Typical Junction Capacitance per leg*		140	pF

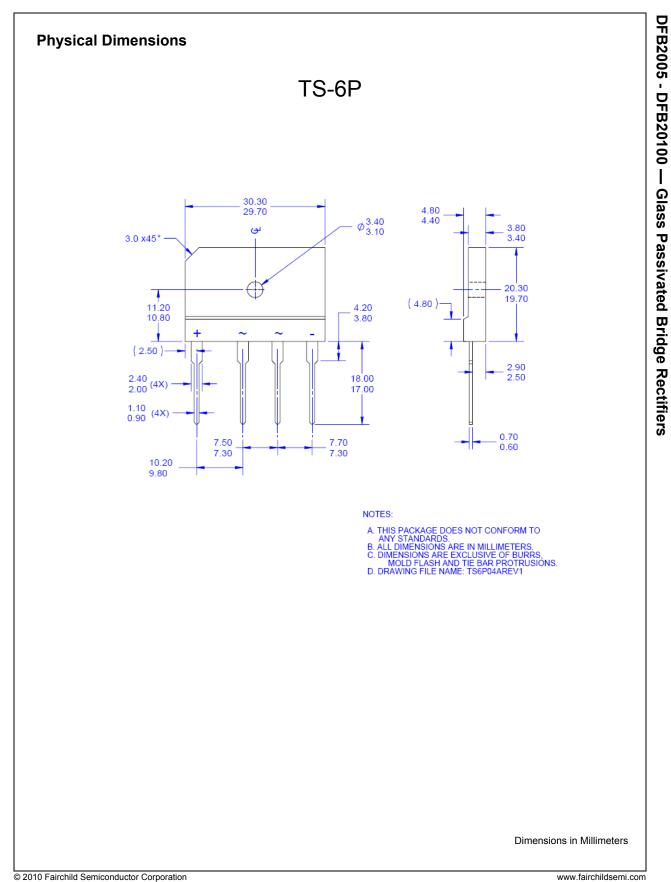
\* Measured at 1MHz and applied Reverse bias of 4.0V DC.

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TS-6P



**Typical Performance Characteristics** 



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