FAIRCHILD SEMICONDUCTOR® DFB2505 - DFB25100 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 350 amperes peak
- High case dielectric strength of 2500 V_{RMS}
- · Isolated voltage from case to lead over 2500 volts

Absolute Maximum Ratings* T _A = 25°C unless otherwise noted									
Symbol	Parameter	Value							
		DFB25 05***	DFB25 10***	DFB25 20***	DFB25 40	DFB25 60	DFB25 80***	DFB25 100***	Units
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V
V _{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
I _(AV)	Maximum Average Forward Rectified Current				25				А
I _{FSM}	Peak Forward Surge Current (8.3mS Single Half-wave)	350			А				
$R_{ ext{ heta}JC}$	Typical Thermal Resistance**	6			°C/W				
ТJ	Operating Temperature Range	-55 to +150			°C				
T _{STG}	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 6" x 0.25" Al-plate heat sink.

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

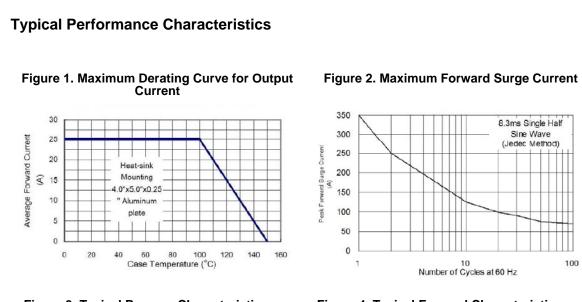
Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise specified

Symbol	Parameter	Test condition	Value	Unit
V _F	Maximum Instantaneous Forward Voltage	@ 12.5A @ 25A	1.0 1.1	V
۱ _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 125°C	10 500	μA
l ² t	Rating for fusing (t < 8.3mS)		508	A ² S
Cj	Typical Junction Capacitance per leg*		110	pF

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

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TS-6P





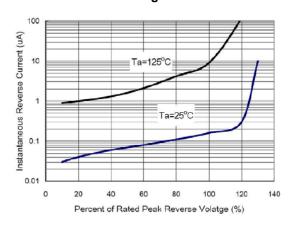
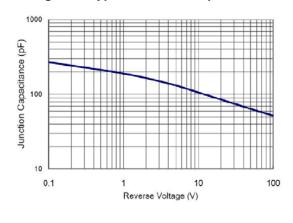
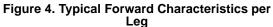
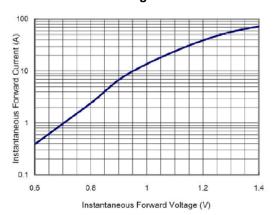


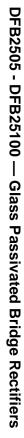
Figure 5. Typical Junction Capacitance



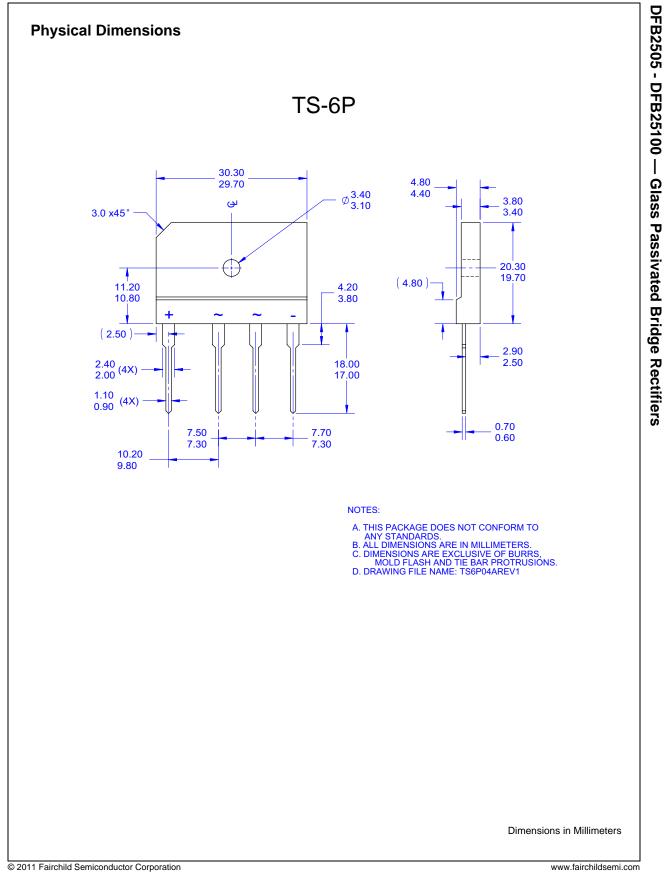
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