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March 2015



DFB20100F162 Glass-Passivated Bridge Rectifier

Features

- UL Certificate: # E258596
- 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 A Peak
- High Case Dielectric Strength: 2000 V_{RMS}
- Isolated Voltage from Case to Lead: > 2500 V

L Forming TS-6P

Ordering Information

Part Number	Top Mark	Package	Packing Method
DFB20100F162 DFB20100		TS-6P 4L	Bulk

Absolute Maximum Ratings^{(1), (2)}

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit	
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	1000	V	
V _{RMS}	Maximum RMS Voltage	700	V	
V _{DC}	Maximum DC Blocking Voltage	1000	V	
I _{F(AV)}	Maximum Average Forward Rectified Current	20	A	
I _{FSM}	Peak Forward Surge Current (8.3 ms Single Half-Wave)	250	А	
$R_{ extsf{ heta}JC}$	Typical Thermal Resistance ⁽²⁾	4.75	°C/W	
TJ	Operating Temperature Range	-55 to +150	°C	
T _{STG}	Storage Temperature Range	-55 to +150	°C	

Notes:

1. Single-phase, half-wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

2. Device mounted on 4 inch x 5 inch x 0.25 inch Al-plate heat sink.

DFB20100F162 — Glass-Passivated Bridge Rectifier

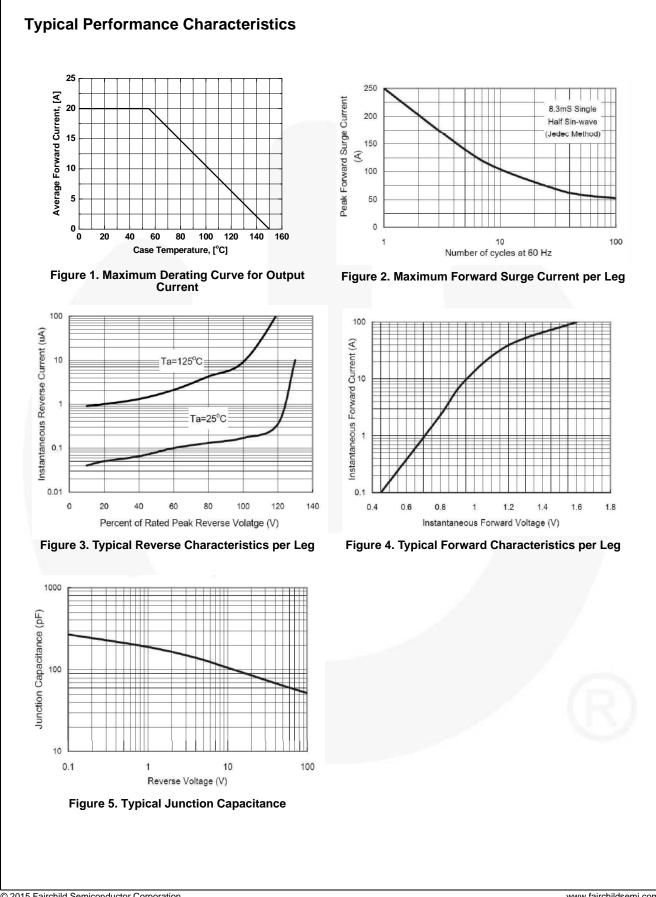
Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise specified.

Symbol	Parameter	Conditions	Value	Unit
V _F	Maximum Instantaneous Forward Voltage	I _F = 10 A	1.0	V
		I _F = 20 A	1.1	v
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^{\circ}C$	10	
		$T_A = 125^{\circ}C$	500	μΑ
l ² t	Rating for Fusing (t < 8.3 ms)		259	A ² s
CJ	Typical Junction Capacitance per Leg ⁽³⁾		140	pF

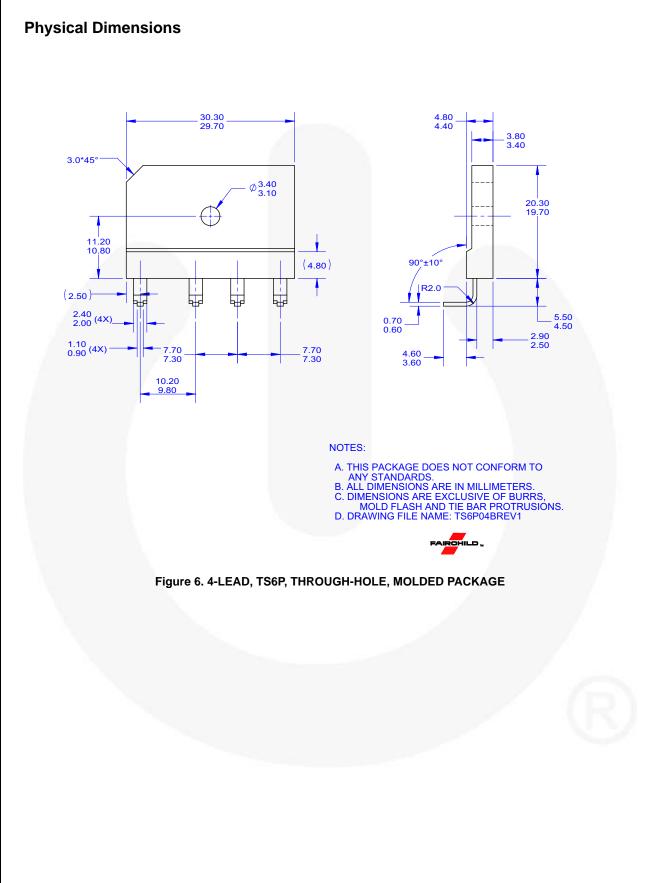
Note:

3. Measured at 1 MHz and applied reverse bias of 4.0 V DC.



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DFB20100F162 — Glass-Passivated Bridge Rectifier



DFB20100F162

- Glass-Passivated Bridge Rectifier

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Datasheet Identification	Product Status	Definition		
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