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October 2013

TS-6P



DFB2005 - DFB20100 Glass-Passivated Bridge Rectifiers

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

Ordering Informations

Part Number	Marking	Package	Packing Method
DFB2005	DFB2005		
DFB2010	DFB2010		
DFB2020	DFB2020		
DFB2040	DFB2040	TS-6P 4L	Rail
DFB2060	DFB2060		
DFB2080	DFB2080		
DFB20100	DFB20100		

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DFB2005 - DFB20100 — Glass-Passivated Bridge Rectifiers

Absolute Maximum Ratings⁽¹⁾

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.

	Parameter	Value							
Symbol		DFB 2005	DFB 2010	DFB 2020	DFB 2040	DFB 2060	DFB 2080	DFB 20100	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				20				А
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
Т _Ј	Operating Temperature Range			-;	55 to +15	60			°C
T _{STG}	Storage Temperature Range			-:	55 to +15	60			°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.

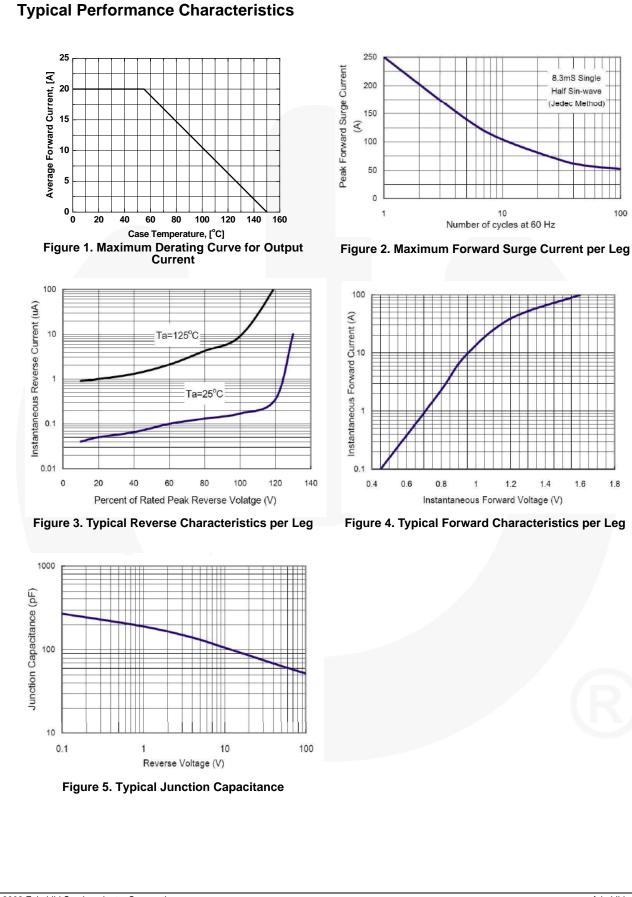
Electrical Characteristics

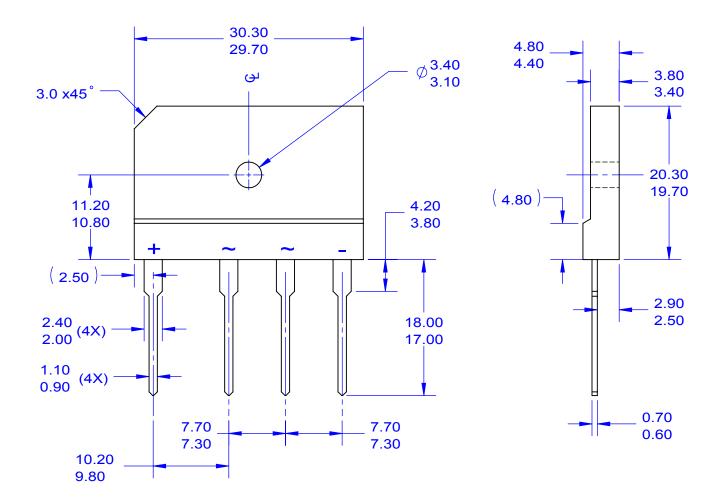
Values are at $T_A = 25^{\circ}C$ unless otherwise specified.

Symbol	Parameter	Test condition	Value	Unit
V	Maximum	10 A	1.0	V
V _F	Instantaneous Forward Voltage	20 A	1.1	V
	Maximum DC Reverse Current	$T_A = 25^{\circ}C$	10	
	at Rated DC Blocking Voltage	T _A = 125°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.





NOTES:

- A. THIS PACKAGE DOES NOT CONFORM TO

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 B. ALL DIMENSIONS ARE IN MILLIMETERS.
 C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS.
 D. DRAWING FILE NAME: TS6P04AREV2





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