

DB32 thru DB320

Surface Mount Schottky Bridge Rectifier
 Reverse Voltage 20 to 200V Forward Current 3A

Features

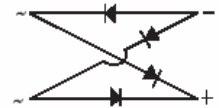
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- High surge current capability



Package: DFS

Mechanical Data

- Case:** DFS Molded plastic body
- Terminals:** Plated leads solderable per MIL-STD-750 Method 2026
- High temperature soldering guaranteed: 260°C / 10 seconds
- 0.375 (9.5mm) lead length, 5lbs.(2.3kg) tension
- Mounting Position: Any



Schematic Diagram

Maximum Ratings & Electrical Characteristics

(T_A= 25°C unless otherwise noted)

Parameter	Symbol	DB32	DB34	DB36	DB39	DB310	DB315	DB320	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	90	100	150	200	V
Average Forward Rectified Output Current	I _{F(AV)}	3.0							A
Peak Forward Surge Current Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	70							A
Rating for fusig (t<8.3ms)	i ² t	20							A ² sec
Maximum Instantaneous Forward Voltage Drop per Leg at 3.0A	V _F	0.50	0.63	0.79	0.85	V			
Maximum DC Reverse Current at Rated T _J =25°C	I _R	0.2			0.1				mA
DC Blocking Voltage per Leg T _J =125°C		10			5				
Typical Thermal Resistance per Leg (Note 1)	R _{θJA}	40							°C/W
	R _{θJL}	13							
Operating Junction Temperature Range	T _J	-55 to +125			-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

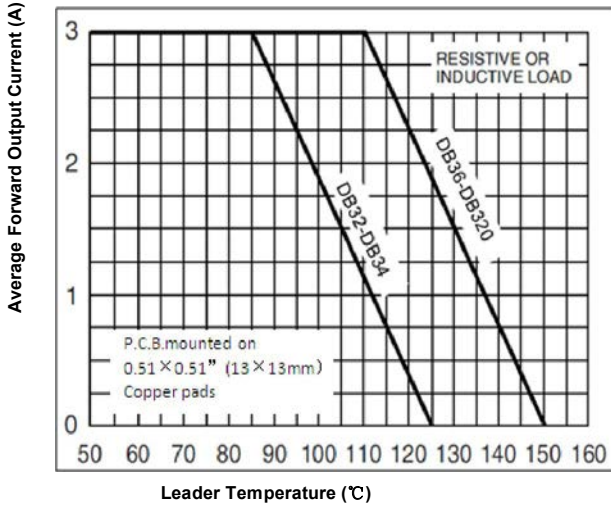
Note 1: Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.51" x 0.51"(13mm x 13mm) copper pads.

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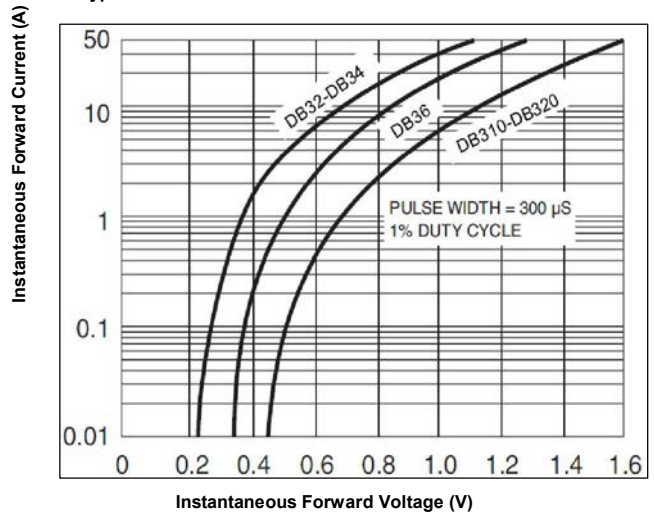
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Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise specified)

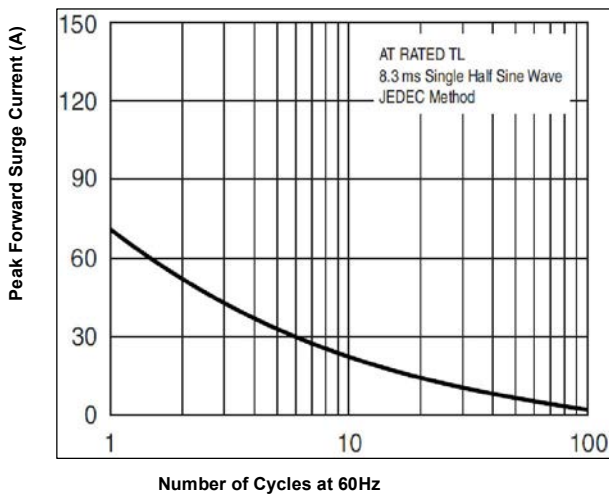
Derating Curve Output Rectified Current



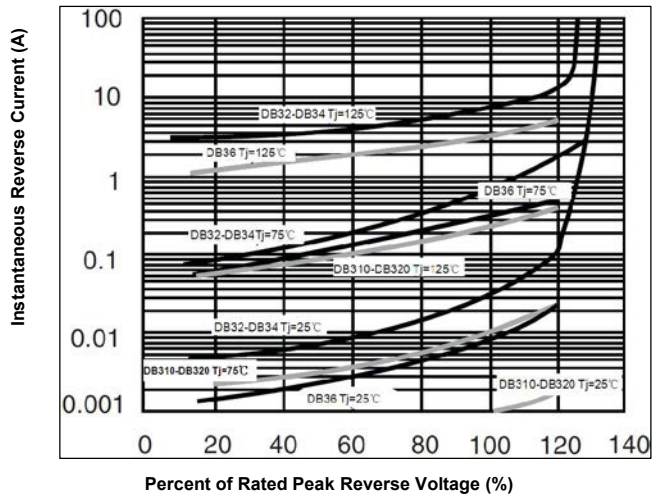
Typical Instantaneous Forward Characteristics



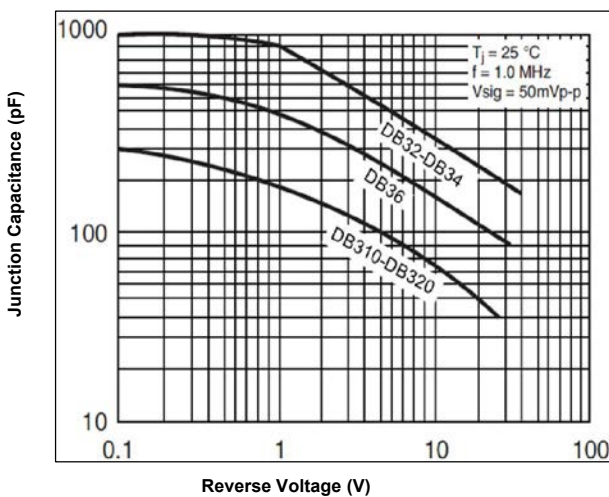
Maximum Non-Repetitive Peak Forward Surge Current



Typical Reverse Characteristics



Typical Junction Capacitance



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Package Outline Dimensions

DFS

Dimensions in inches and (millimeters)

