



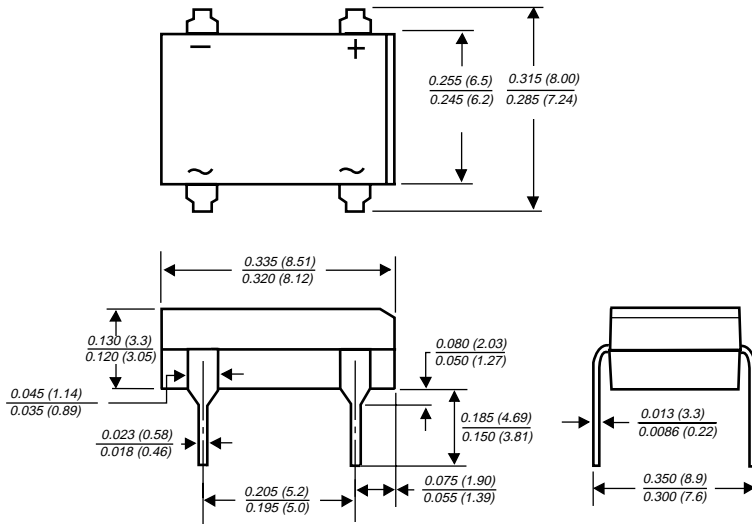
Miniature Glass Passivated Ultrafast Bridge Rectifier

Reverse Voltage 50 and 200V
Forward Current 1.0A

Case Style DFM

Features

- Plastic package used has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under Recognized Component Index, file number E54214
- Glass passivated chip junction
- High forward surge current capability
- Ideal for printed circuit boards
- Superfast recovery times for high efficiency
- High temperature soldering guaranteed: 260°C/10 seconds, at 5 lbs. (2.3kg) tension



Mechanical Data

- Case:** Molded plastic body over passivated junctions
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols as marked on body
Mounting Position: Any
Weight: 0.014 oz., 0.4 g
Packaging codes/options:
 45/50 ea. per Bulk Tube

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	EDF1AM	EDF1BM	EDF1CM	EDF1DM	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	V
Maximum RMS voltage	V _{RMS}	35	70	106	140	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	V
Maximum average forward output rectified current at T _A = 40°C	I _{F(AV)}	1.0				A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) T _J = 150°C	I _{FSM}	50				A
Rating for fusing (t < 8.3ms)	I ² t	10				A ² sec
Typical thermal resistance per leg (Note 1)	R _{θJA} R _{θJL}	38 12				°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150				°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	EDF1AM	EDF1BM	EDF1CM	EDF1DM	Unit
Max. instantaneous forward voltage drop per leg at 1.0A	V _F	1.05				V
Maximum reverse current at rated DC blocking voltage T _A = 25°C T _A = 125°C	I _R	5.0 1.0				μA mA
Maximum reverse recovery time at I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A	t _{rr}	50				ns

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

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

Fig. 1 - Derating Curves Output Rectified Current

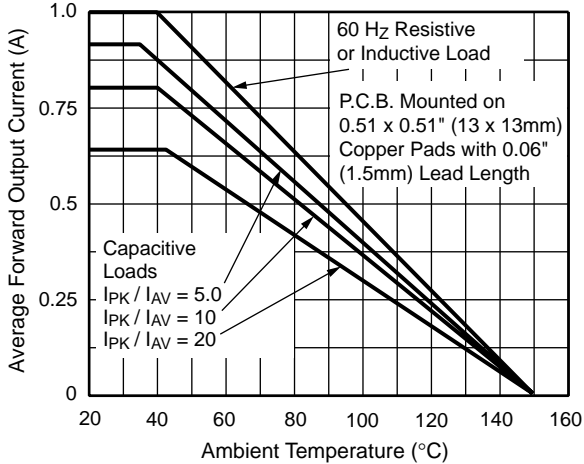


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

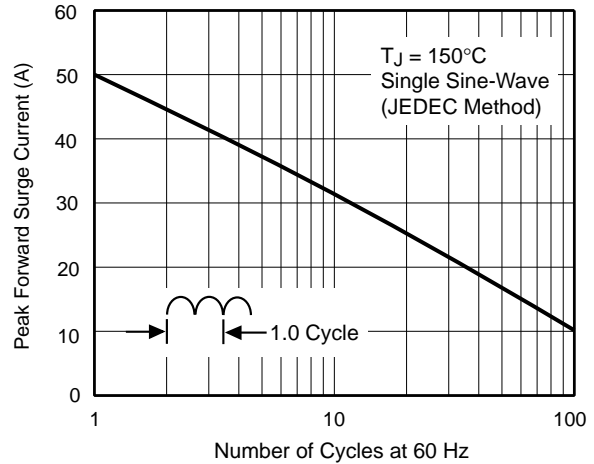


Fig. 3 - Typical Forward Characteristics Per Leg

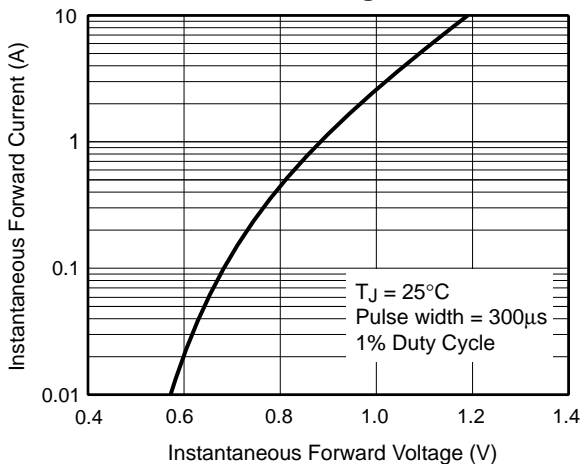


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

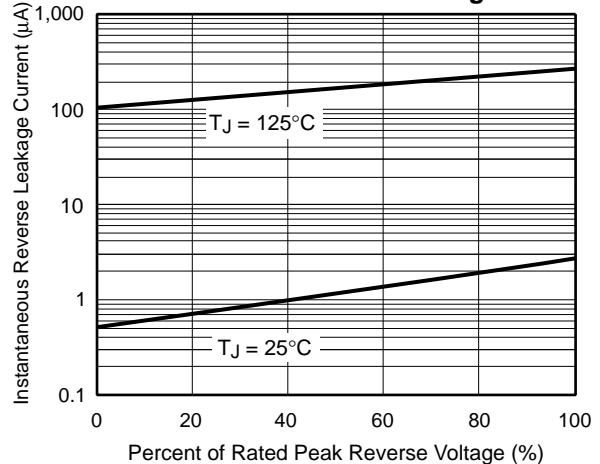


Fig. 5 - Typical Junction Capacitance Per Leg

