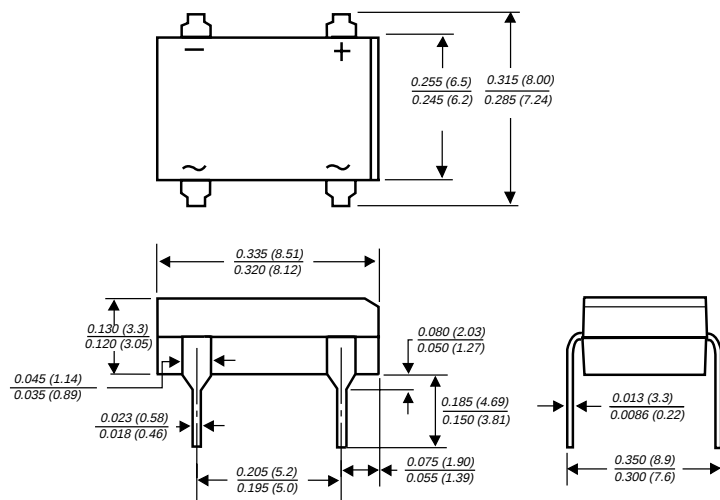




Case Style DFM



Dimensions in inches and (millimeters)

Miniature Glass Passivated Ultrafast Bridge Rectifier

Reverse Voltage 50 and 200V

Forward Current 1.0A

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: 0.014oz., 0.4g

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 $T_A = 40^\circ\text{C}$	$I_{F(AV)}$	1.0				A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) $T_J = 150^\circ\text{C}$	I_{FSM}	50				A
Rating for fusing ($t < 8.3\text{ms}$)	I^2t	10				A ² sec
Typical thermal resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	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 $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$	I_R	5.0 1.0				μA mA
Maximum reverse recovery time at $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$	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°C unless otherwise noted)

Miniature Glass Passivated Ultrafast Bridge Rectifier

Fig. 1 - Derating Curves Output Rectified Current

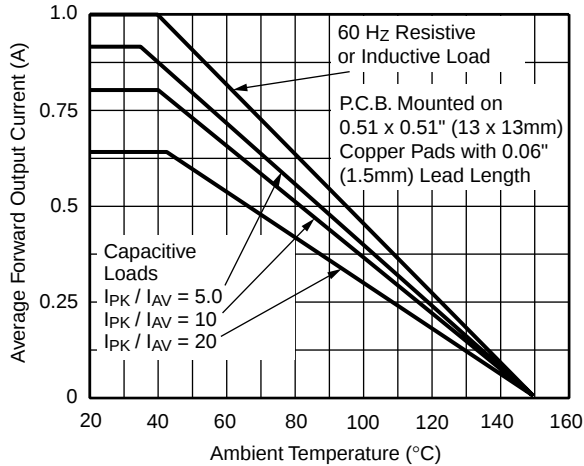


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

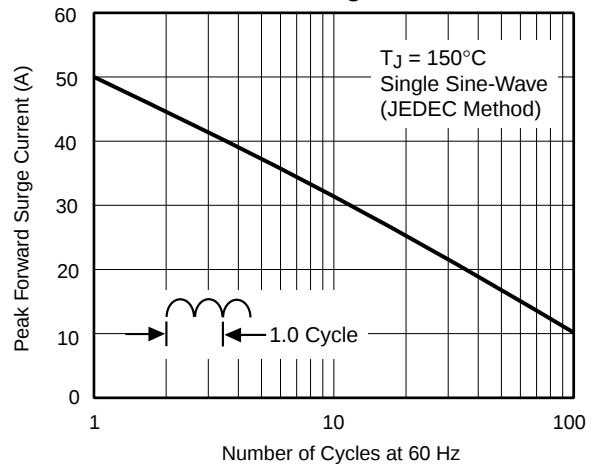


Fig. 3 - Typical Forward Characteristics Per Leg

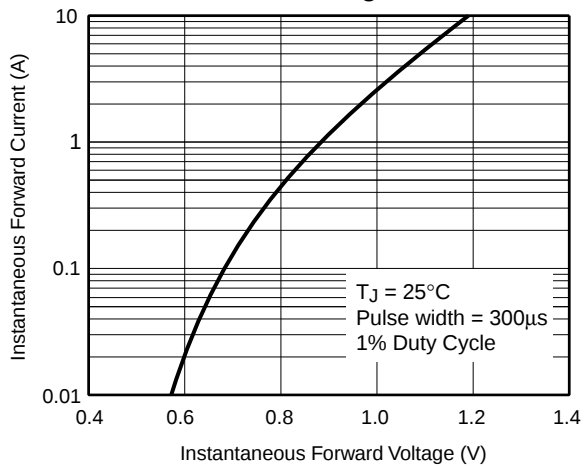


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

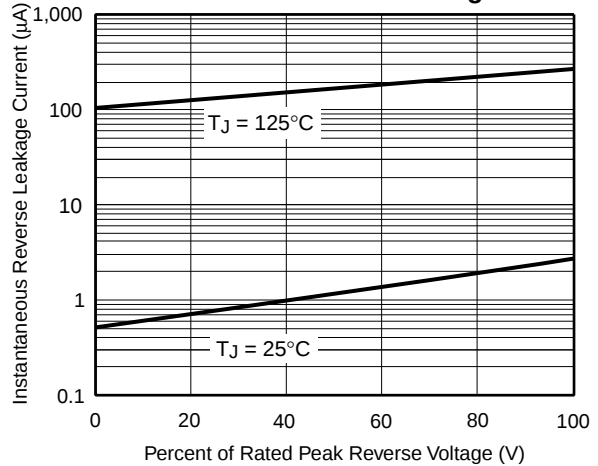


Fig. 5 - Typical Junction Capacitance Per Leg

