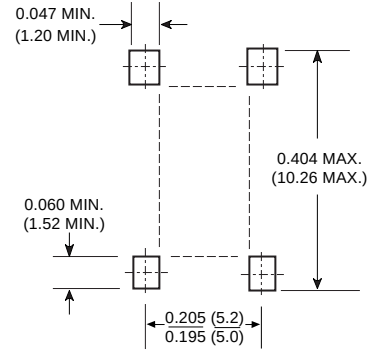
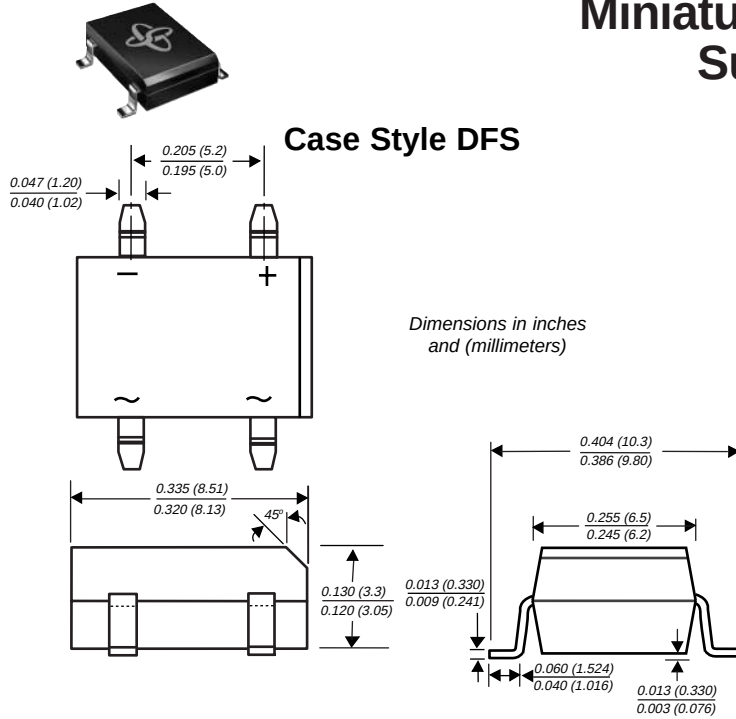


Miniature Glass Passivated Ultrafast Surface Mount Bridge Rectifier

Reverse Voltage 50 to 200 V

Forward Current 1.0 A

Mounting Pad Layout DFS Bridge



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under Recognized Component Index, file number E54214
- Glass passivated chip junctions
- High surge overload rating-50 amperes peak
- 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 marked on body

Mounting Position: Any

Weight: 0.04 ounce, 1.0 gram

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

	SYMBOLS	EDF1AS	EDF1BS	EDF1CS	EDF1DS	UNITS
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 (NOTE 2)	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}	38				°C/W
	R _{θJL}	12				
Operating junction and storage temperature range	T _J , T _{STG}	55 to +150				°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

	SYMBOLS	EDF1AS	EDF1BS	EDF1CS	EDF1DS	UNITS
Maximum instantaneous forward voltage drop per leg at 1.0A (NOTE 2)	V _F	1.05				V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C T _A =125°C	I _R	5.0			μA
			1.0			mA
Maximum reverse recovery time at I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	t _{rr}	50				ns

NOTES: (1) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas
(2) Pulse test: 300μs pulse width, 1% duty cycle

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

FIG. 1 - DERATING CURVES OUTPUT RECTIFIED CURRENT

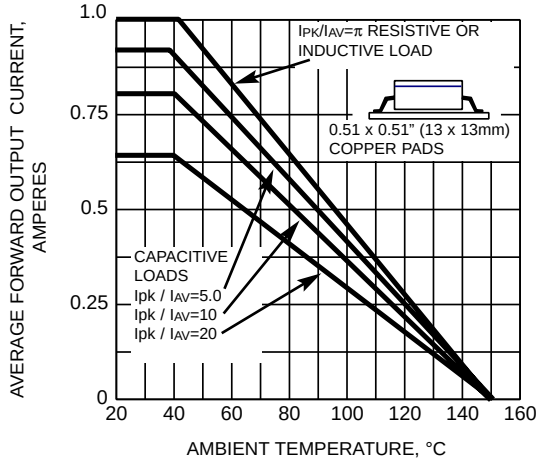


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

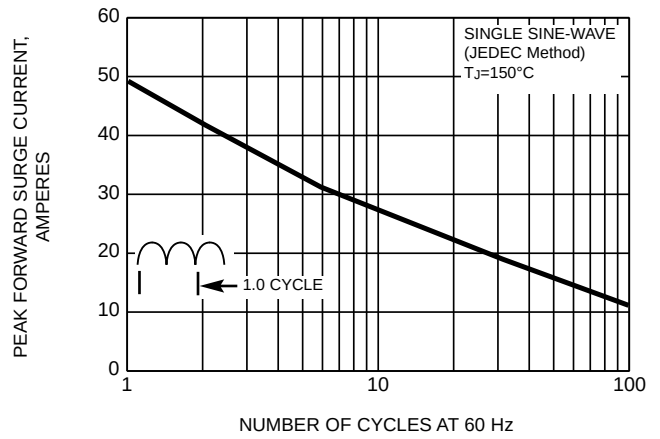


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

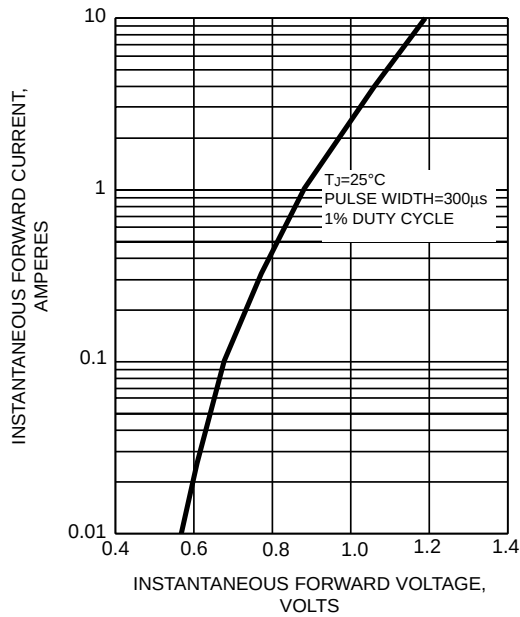


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

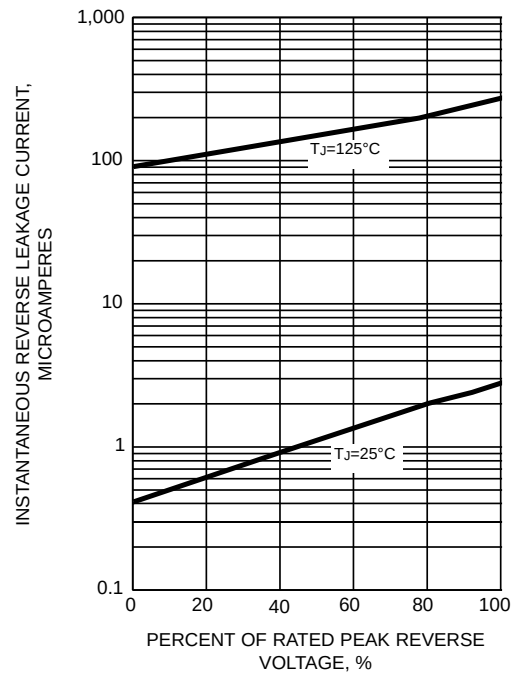


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

