

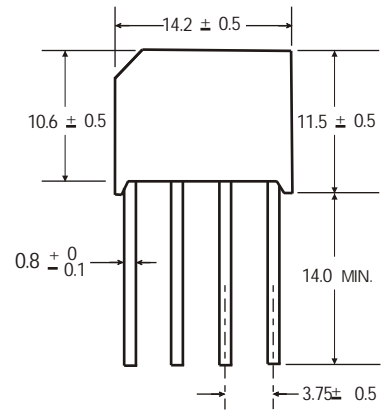
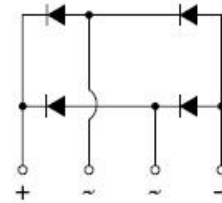
SFKBP2D-SFKBP2J

2A, 200V - 600V Ultrafast Glass Passivated Bridge Rectifiers

Features

- ★ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ★ High surge current capability
- ★ Ideal for printed circuit boards
- ★ Ultrafast reverse recovery time for high frequency

KBP



Dimensions in millimeters

Mechanical Data

- ★ Case: Molded plastic body over passivated junctions
- ★ Terminals: Solderable per MIL-STD-202, method 208
- ★ Polarity: As marked on body
- ★ Mounting position: Any
- ★ Weight: 0.06 ounce, 1.7 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	SFKBP2D	SFKBP2G	SFKBP2J	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	V
Maximum RMS voltage	V _{RMS}	140	280	420	V
Maximum DC blocking voltage	V _{DC}	200	400	600	V
Maximum average forward rectified current	I _{F(AV)}	2.0			A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	60			A
Rating for fusing (t<8.3ms)	I ² t	6.64			A ² s
Maximum instantaneous forward voltage (Note 1) I _F = 2 A	V _F	0.95	1.20	1.70	V
Maximum reverse current @ rated V _R T _J =25°C T _J =125°C	I _R	1 200			μA
Maximum reverse recovery time (Note 2)	t _{rr}	35			ns
Typical thermal resistance	R _{θJL}	25			°C/W
	R _{θJA}	80			
Operating junction temperature range	T _J	- 55 to +150			°C
Storage temperature range	T _{STG}	- 55 to +150			°C

Note 1: Pulse test with PW=300μs, 1% duty cycle

Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

RATINGS AND CHARACTERISTICS CURVES

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

FIG.1 FORWARD CURRENT DERATING CURVE

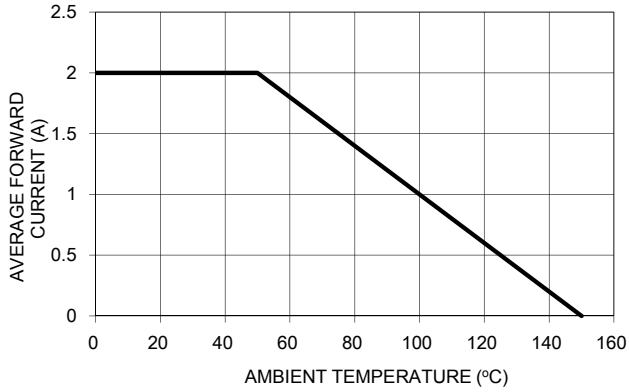


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

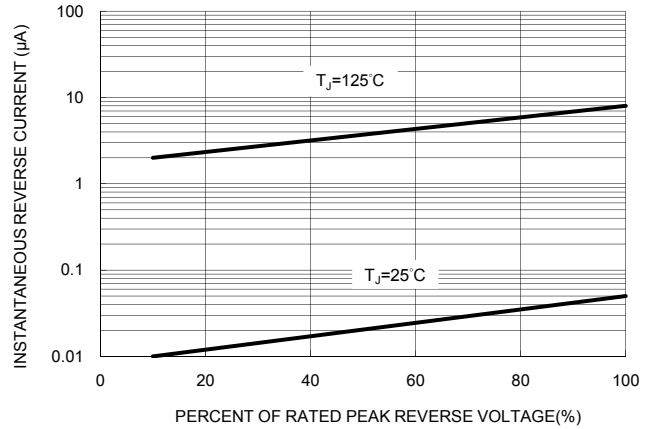


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

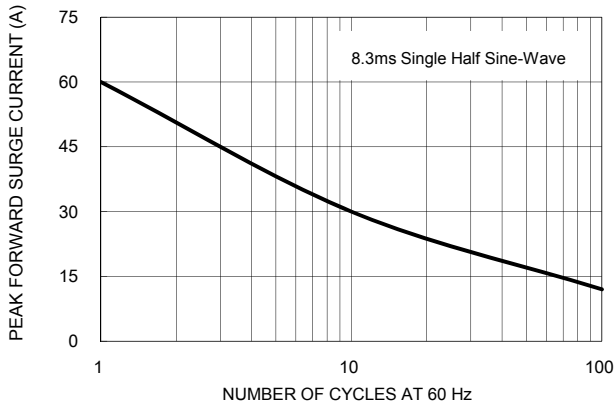


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

