

Surface Mount Schottky Bridge Rectifier

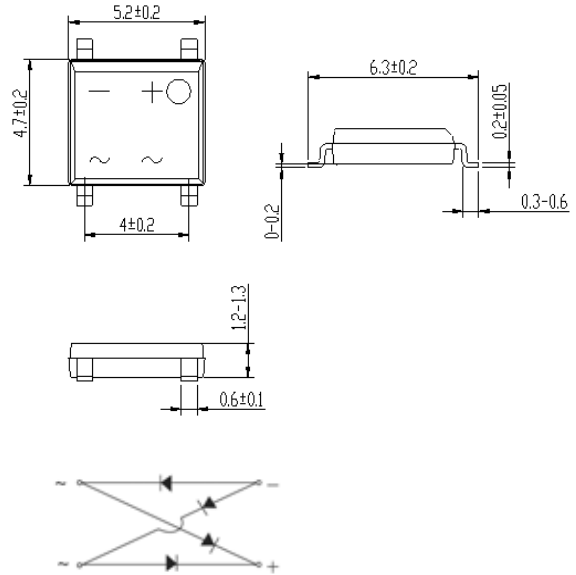
Reverse Voltage 60 Volts Forward Current 2.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.

MECHANICAL DATA

- Case: Micro Dip Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.090 grams.



ABSOLUTE MAXIMUM RATINGS (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	ABS26S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	60	V
Maximum RMS Voltage	V _{RMS}	42	V
Maximum DC Blocking Voltage	V _R	60	V
Maximum Average Forward Current	I _O	2	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50	A
Typical Thermal Resistance, Junction to Ambient (Note 2) Junction to Case (Note 1)	R _{θJA} R _{θJL}	210 33	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTES:

1. semi-infinite heatsink.
2. Minimum pad for each lead on board



ELECTRICAL CHARACTERISTICS (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =150 μ A T _A =25°C	60	-	-	V
Instantaneous forward voltage	V _F	I _F =0.5A	-	0.43	-	V
		I _F =1A T _A =25°C	-	0.50	-	
		I _F =2A	-	0.63	0.7	
		I _F =0.5A	-	0.34	-	V
Reverse current	I _R	I _F =1A T _A =125°C	-	0.45	-	
		I _F =2A	-	0.57	-	
		V _R =48V T _A =25°C	-	3	10	μ A
		V _R =60V T _A =25°C	-	-	30	μ A
Junction capacitance	C _J	V _R =4V, f=1MHz	-	-	-	mA
			-	-	140	

RATINGS AND CHARACTERISTIC CURVES

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

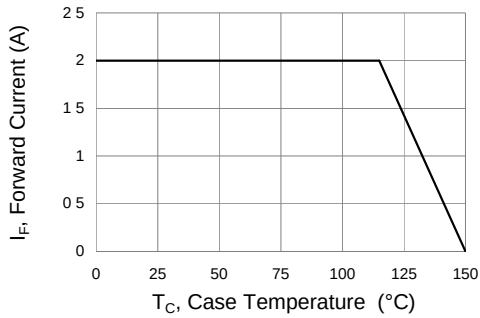


Fig.1 Forward Current Derating Curve

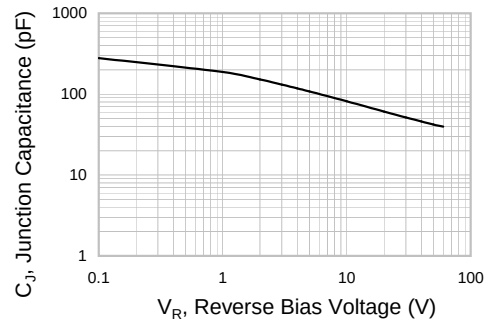


Fig.2 Typical Junction Capacitance

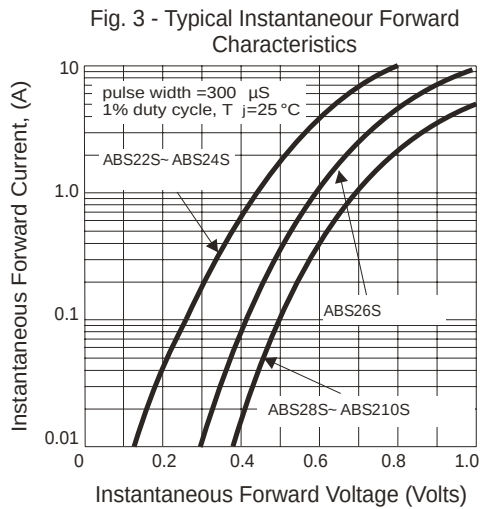


Fig. 3 - Typical Instantaneous Forward Characteristics

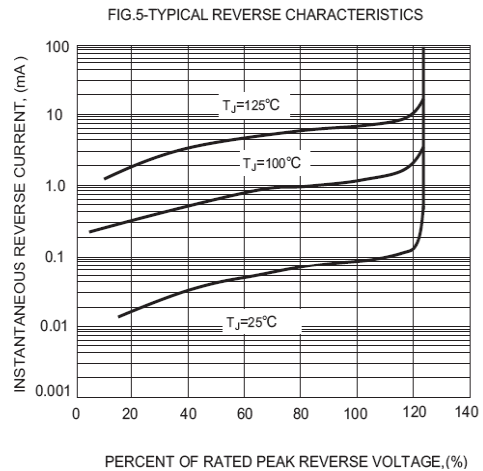


FIG.5-TYPICAL REVERSE CHARACTERISTICS