



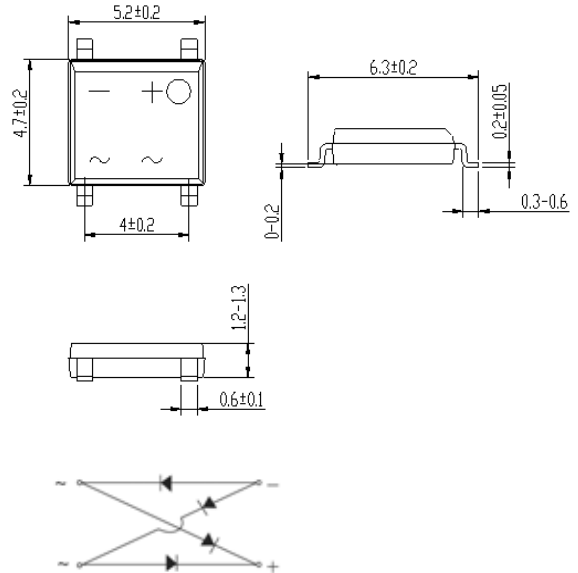
**Surface Mount Schottky Bridge Rectifier
Reverse Voltage 100 Volts Forward Current 1.0 Ampere**

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	ABS110S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	71	V
Maximum DC Blocking Voltage	V _R	100	V
Maximum Average Forward Current	I _O	1	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30	A
Typical Thermal Resistance, Junction to Ambient (Note 2) Junction to Case (Note 1)	R _{θJA} R _{θJL}	85 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



ABS110S

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

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX.	UNIT
Reverse Current	I _R	V _R =100V	-	0.3	10	μA
Reverse breakdown voltage	V _{(BR)R}	I _R =150μA	100	115	-	V
Forward Voltage	V _F	I _F =500mA		650	700	mV
Forward Voltage	V _F	I _F =1A		730	750	mV
Typical Junction capacitance (Note 1)	C _J	V _R =4V, f=1MHz	-	85	-	pF



RATINGS AND CHARACTERISTIC CURVES

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

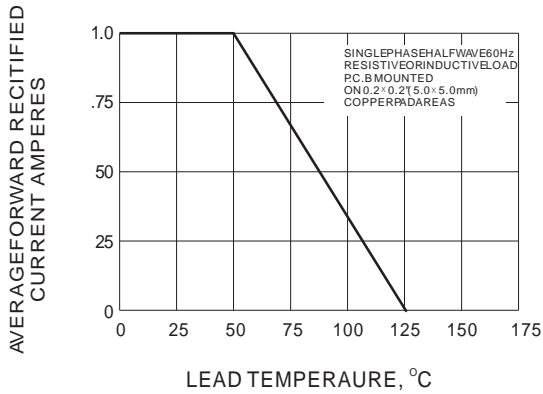


Fig.1- FORWARD CURRENT DERATING CURVE

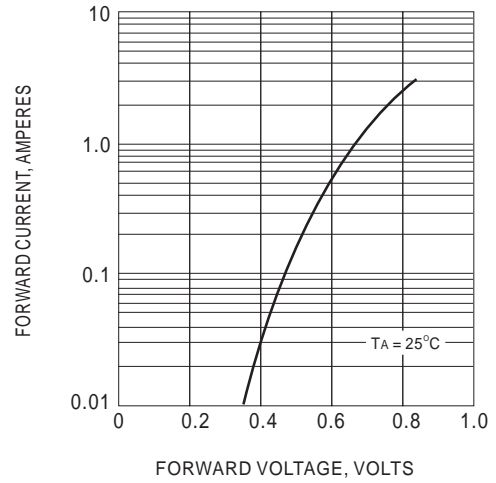


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

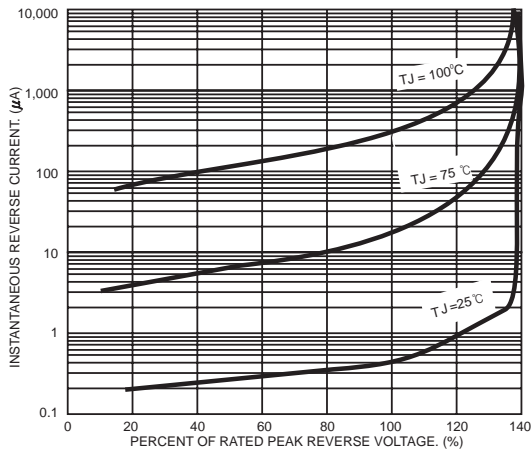
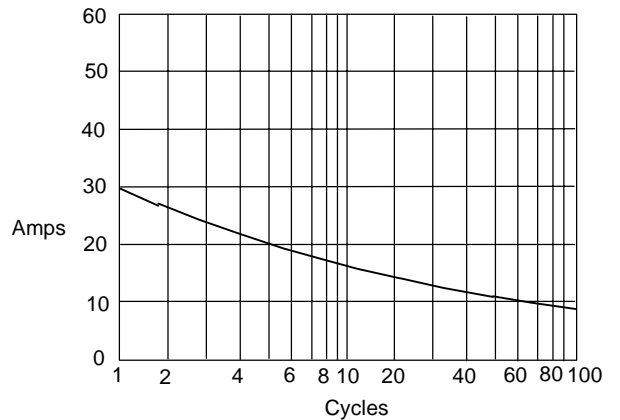


FIG.3- TYPICAL REVERSE CHARACTERISTICS



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 4- Peak Forward Surge Current