FUXINSEMI
INNOVATOR IN SEMICONDUCTOR

BSR106WS-TP-FS

1.0A Surface Mount Schottky Barrier Rectifiers - 60V

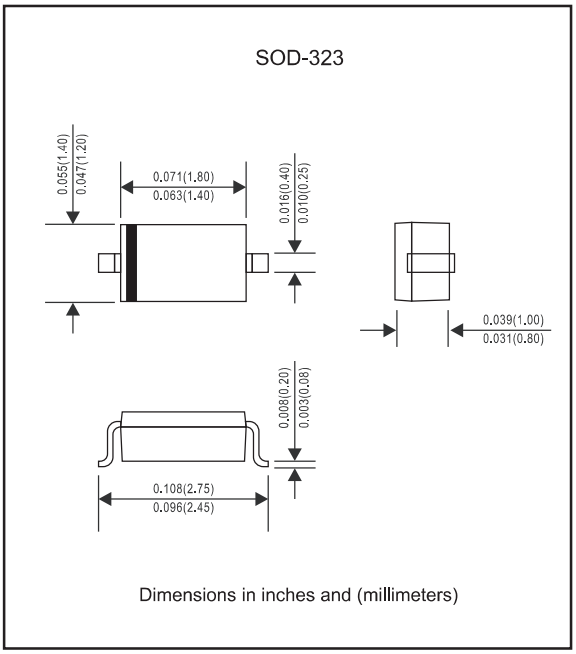
Features

- For use in low voltage, high frequency inverters
- Free wheeling, and polarity protection applications

Mechanical data

- **Case**: JEDEC SOD-323 molded plastic body
- **Terminals**: Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity**: Color band denotes cathode end
- **Mounting Position**: Any

Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

Parameter	Symbols	BSR106WS-TP-FS	Units
Maximum recurrent peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Continuous forward current	I_F	1	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1 @VR=60V	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage	V_F	0.7 @ IF=1.0A	V
Total capacitance VR=4V,f=1MHz	C_{tot}	120	pF
Total power dissipation	P_{tot}	250	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Junction Temperature	T_j	125	℃
Storage Temperature	T_{stg}	-55 ~ +150	℃

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Rating and characteristic curves

Fig.1 Power Derating Curve

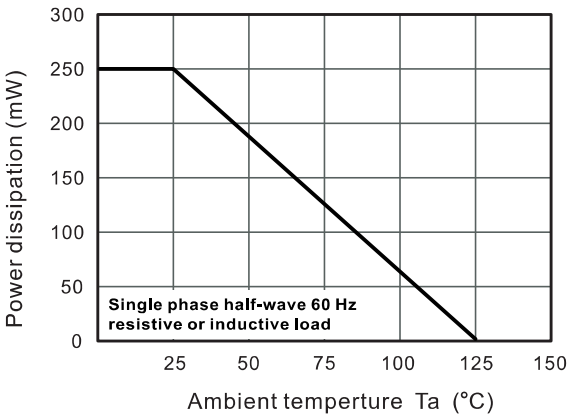


Fig.2 Typical Reverse Characteristics

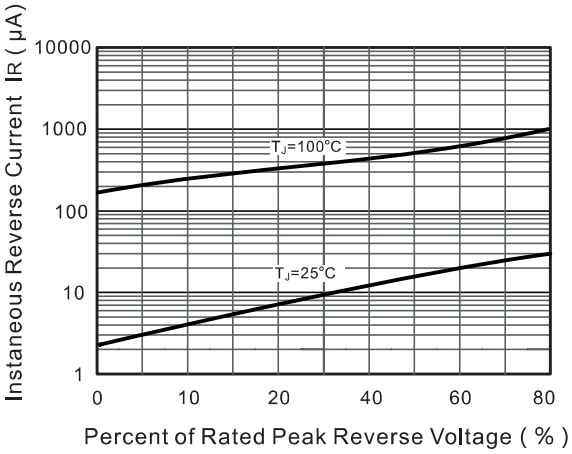


Fig.3 TYPICAL FORWARD VOLTAGE

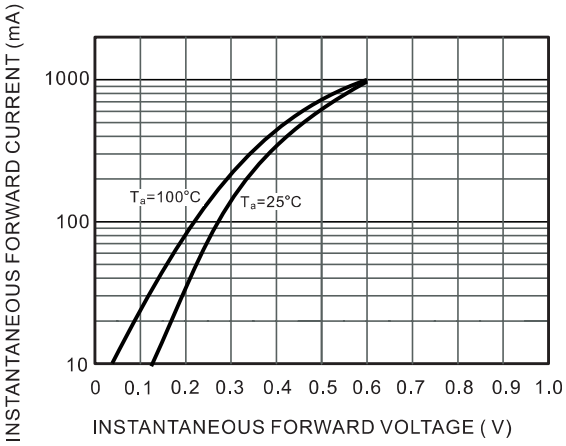
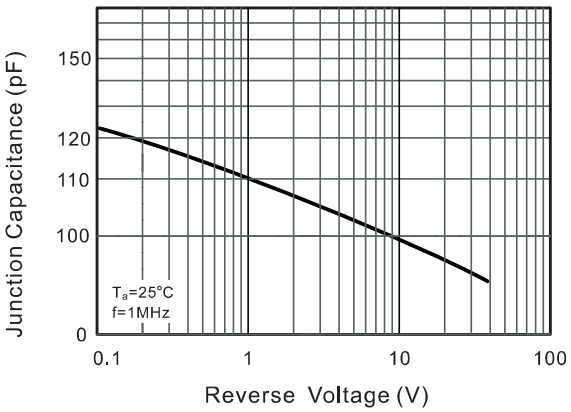


Fig.4 Typical Junction Capacitance



Marking

Type number	Marking code
BSR106WS-TP-FS	SM