

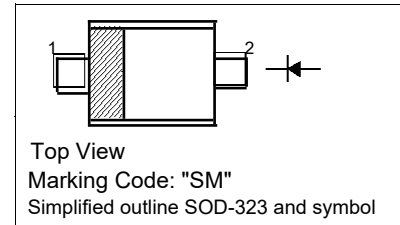
BSR106WS

Features

- ☐ Guard Ring Protection
- ☐ Low Forward Voltage Drop
- ☐ For Use in Low Voltage, High Frequency Inverters
- ☐ High Surge Current Capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

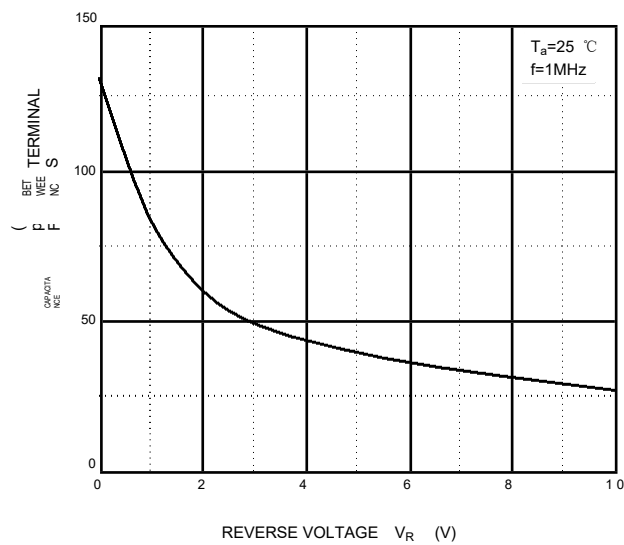
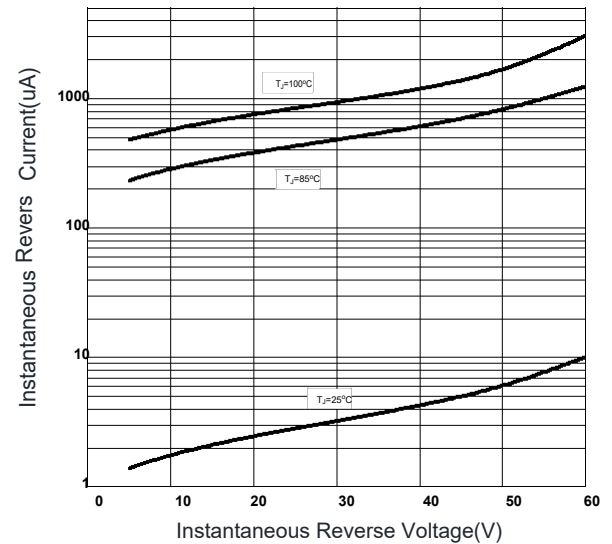
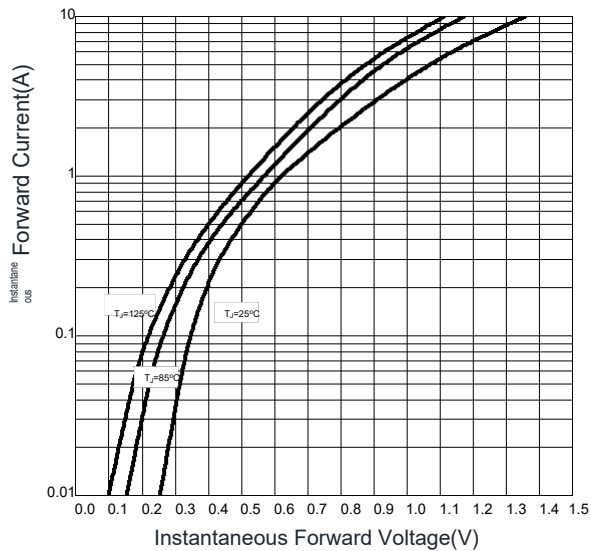
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Average forward current	$I_{F(AV)}$	1	A
Peak Forward Surge Current	I_{FSM}	10	A
Junction Temperature	T_J	$-65 \sim +125$	$^\circ\text{C}$
Storage Temperature Range	stg	$-65 \sim +150$	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Average Forward Current $T_c = 90$	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms, half sine	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage $I_{FM} = 1\text{A}$; $T_J = 25$ (Note 1)	V_F	0.70	V
Maximum DC Reverse Current At Rated DC Blocking Voltage $T_A = 25$	I_R	0.1	mA
Typical junction capacitance Measured at 1.0MHz, $V_R = 4.0\text{V}$	C_J	120	PF

Notes:1. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

