



Certificate Number: Q10561



Certificate Number: E17276

SB220S - SB2B0S

PRV : 20 - 100 Volts**I_o : 2.0 Amperes**

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low cost
- * Low forward voltage drop

MECHANICAL DATA :

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.339 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

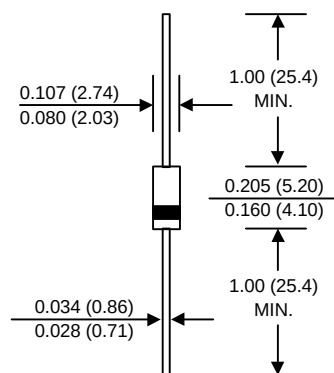
Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

SCHOTTKY BARRIER RECTIFIER DIODES

DO-41



Dimensions in inches and (millimeters)

RATING	SYMBOL	SB 220S	SB 230S	SB 240S	SB 250S	SB 260S	SB 270S	SB 280S	SB 290S	SB 2B0S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	70	80	90	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	70	80	90	100	Volts
Maximum Average Forward Current 0.375", 9.5mm Lead Length See Fig.1	I _{F(AV)}	2.0									Amps.
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	60									Amps.
Maximum Forward Voltage at I _F = 2.0 Amps. (Note 1)	V _F	0.5			0.74			0.79			Volt.
Maximum Reverse Current at Rated DC Blocking Voltage (Note 1)	I _R	0.5									mA
Junction Temperature Range	T _J	- 65 to + 125			- 65 to + 150						°C
Storage Temperature Range	T _{STG}	- 65 to + 150									°C

Notes :

(1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%.

UPDATE : MAY 10, 1999

RATING AND CHARACTERISTIC CURVES (SB220S - SB2B0S)

FIG.1 - FORWARD CURRENT DERATING CURVE

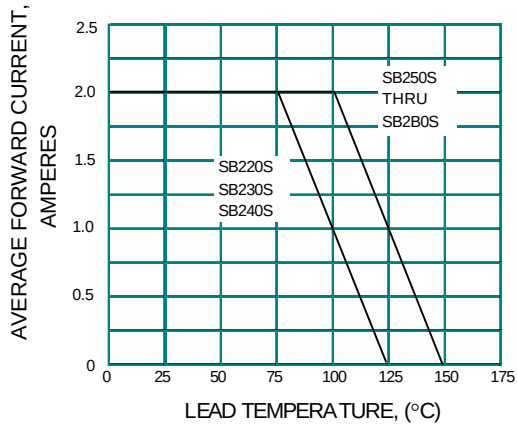


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

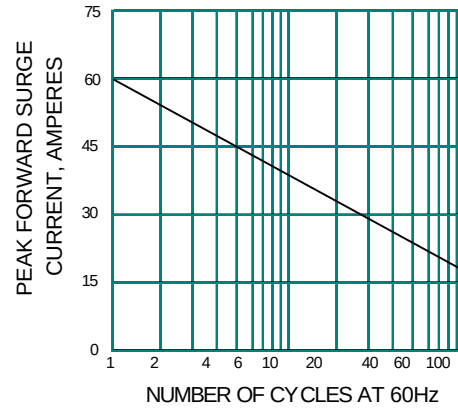


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

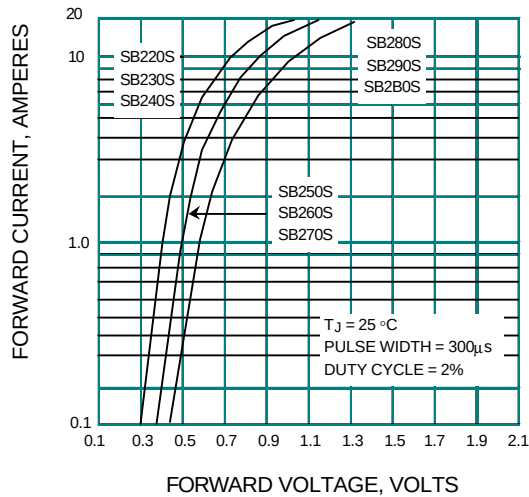


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

