



ELECTRONICS INDUSTRY (USA) CO., LTD.

103 MOO 4, LATKRABANG EXPORT PROCESSING ZONE, LATKRABANG, BANGKOK 10520, THAILAND
TEL. : (66 2) 326-0102, 739-4580 FAX. : (66 2) 326-0933 E-mail : eicfirst @ iname.com http. : // www.eicsemi.com



Certificate Number: Q10561



Certificate Number: E17276

SB520 - SB5B0

PRV : 20 - 100 Volts
Io : 5.0 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-201AD 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 : 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

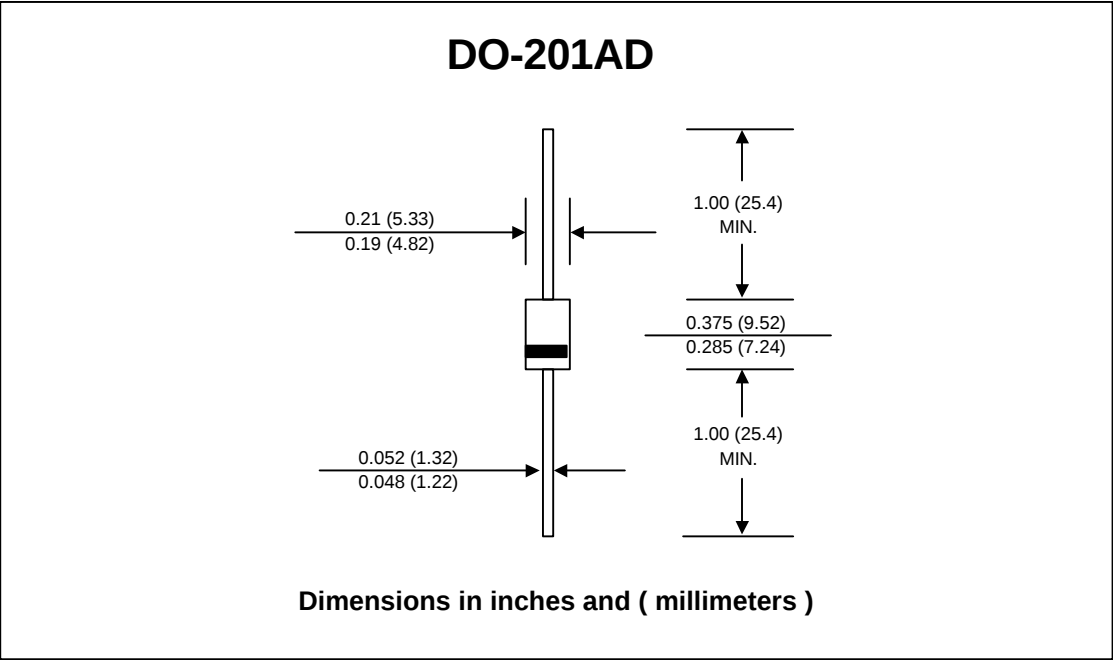
Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	SB520	SB530	SB540	SB550	SB560	SB570	SB580	SB590	SB 5B0	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)}	5.0									Amps.
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	150									Amps.
Maximum Forward Voltage at I _F = 5 Amps. (Note 1)	V _F	0.5			0.67			0.79			Volt.
Maximum Reverse Current at Ta = 25 °C	I _R	0.5									mA
Rated DC Blocking Voltage (Note 1) Ta = 100 °C	I _{R(H)}	50			25						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%.

SCHOTTKY BARRIER
RECTIFIER DIODES





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RATING AND CHARACTERISTIC CURVES (SB520 - SB5B0)

FIG.1 - FORWARD CURRENT DERATING CURVE

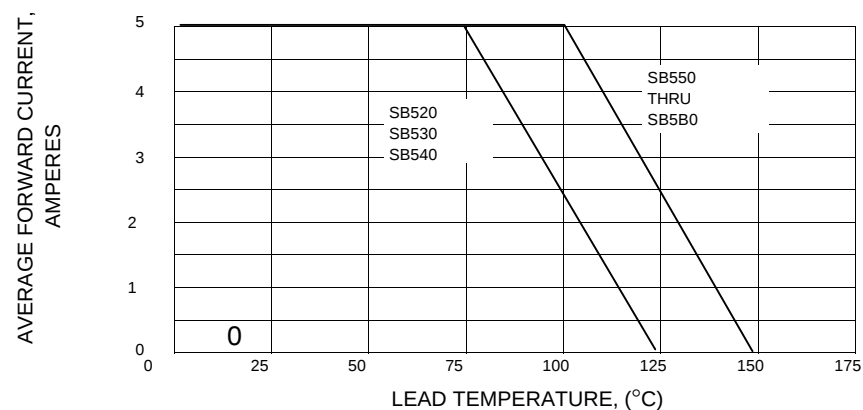


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

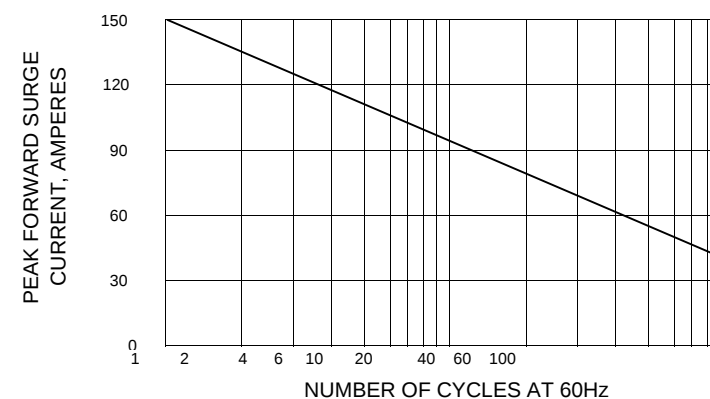


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

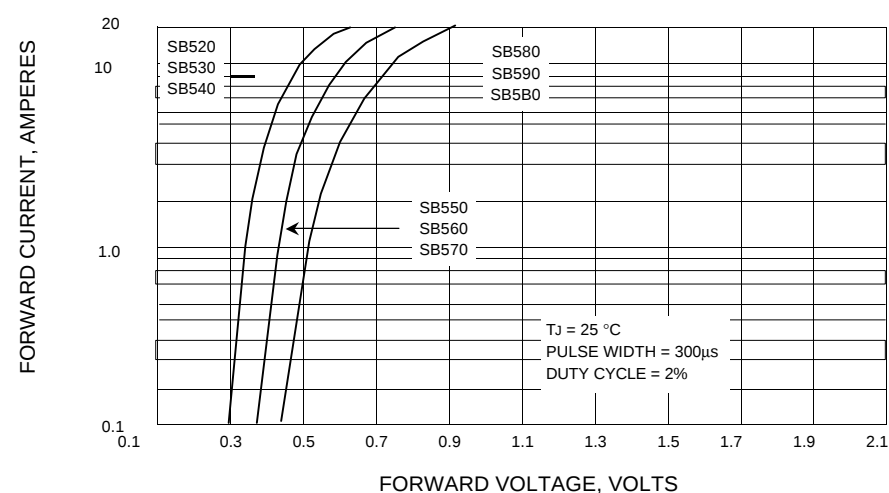


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

