

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **150** Volts
FORWARD CURRENT - **5.0** Amperes

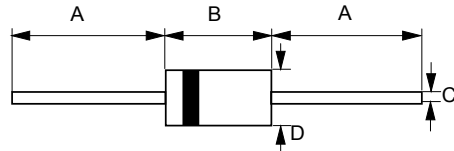
FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

MECHANICAL DATA

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.1 grams
- Mounting position : Any

DO-201AD



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	SB5150	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	150	V
Maximum RMS Voltage	VRMS	105	V
Maximum DC Blocking Voltage	VDC	150	V
Maximum Average Forward Rectified Current @TL=150°C	I(AV)	5.0	A
Peak Forward Surge Current 8.3ms single half sine-wave @TJ=25°C	IFSM	125	A
Peak Repetitive Reverse Current tp=2us, square F=1KHz @TJ=25°C	IRRM	1	A
Maximum forward Voltage at 5.0A DC @TJ =25°C	VF	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =150°C	IR	8 50	uA mA
Typical Junction Capacitance (Note 1)	CJ	150	pF
Typical Thermal Resistance (Note 2 & 3)	RθJL RθJC	10 12	°C/W
Operating Temperature Range	TJ	-55 to +175	°C
Storage Temperature Range	TSTG	-55 to +175	°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal Resistance Junction to Lead.
3.Thermal Resistance Junction to Case.

FIG.1 - FORWARD CURRENT DERATING CURVE

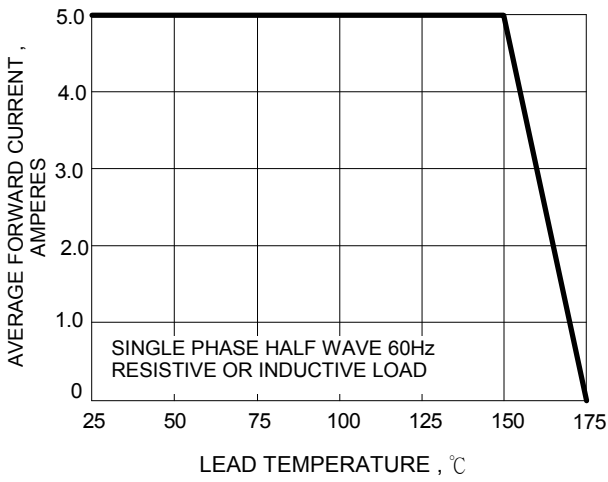


FIG.2 - MAXIMUM NONREPETITIVE SURGE CURRENT

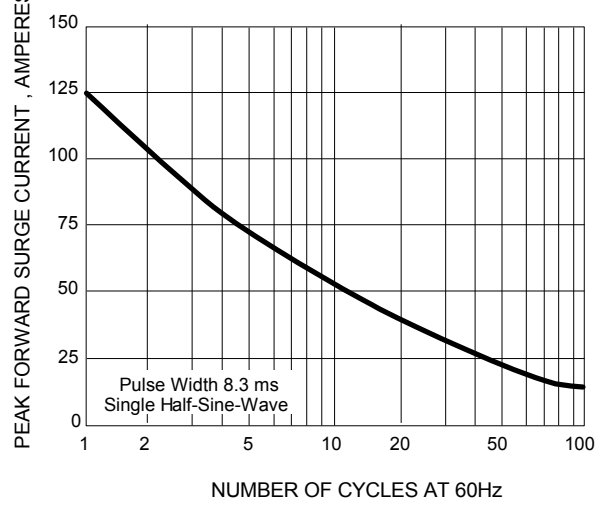


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

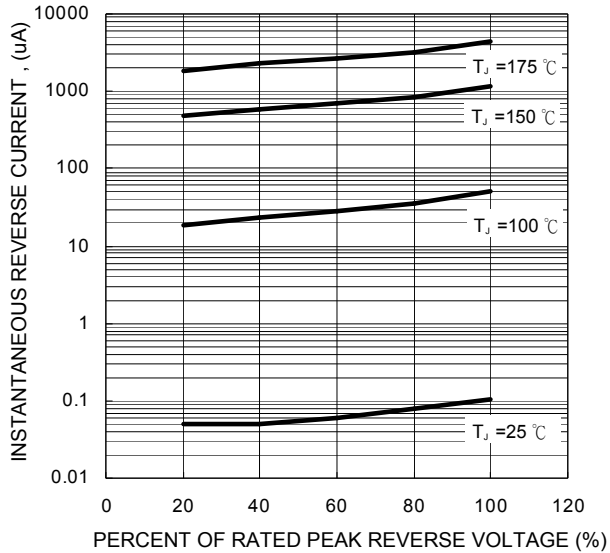


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

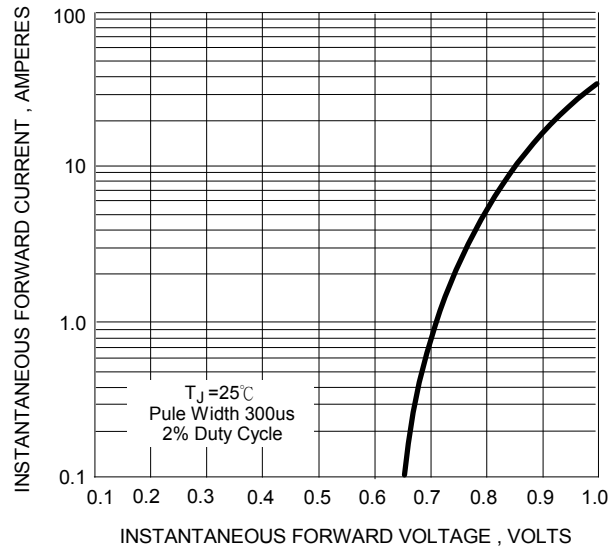


FIG.5 - TYPICAL JUNCTION CAPACITANCE

