

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **30 to 45** Volts
FORWARD CURRENT - **8.0** Amperes

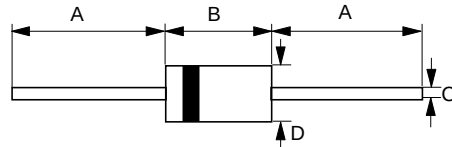
FEATURES

- 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	SB830	SB840	SB845	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	45	V
Maximum RMS Voltage	V _{RMS}	21	28	31.5	V
Maximum DC Blocking Voltage	V _{DC}	30	40	45	V
Maximum Average Forward Rectified Current .375", (9.5mm) Lead Lengths @T _L =90°C	I _(AV)	8.0			A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	175			A
Maximum forward Voltage at 8.0A DC	V _F	0.55			V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	1.0 50			mA
Typical Junction Capacitance (Note 1)	C _J	550			pF
Typical Thermal Resistance (Note 2)	R _{θJL}	15			°C/W
Operating Temperature Range	T _J	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

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

REV. 3, 01-Dec-2000, KDHF05

FIG.1 - FORWARD CURRENT DERATING CURVE

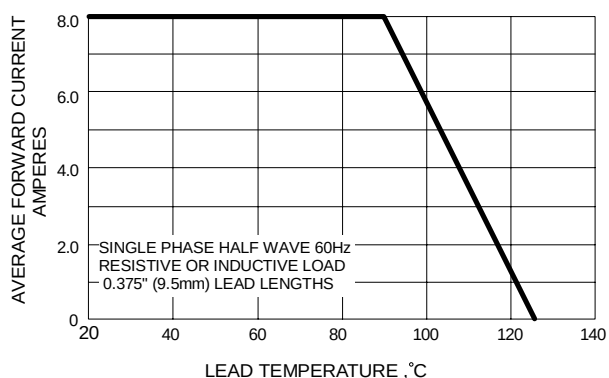


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

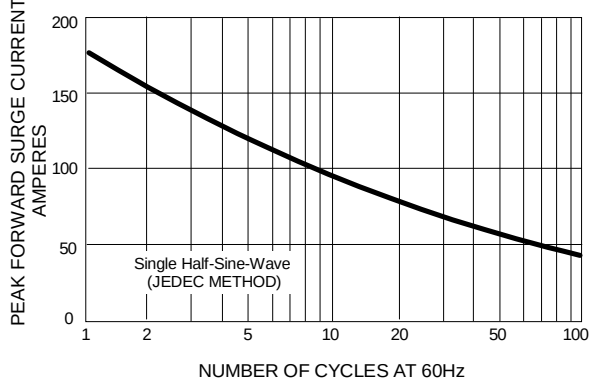


FIG.3 - TYPICAL JUNCTION CAPACITANCE

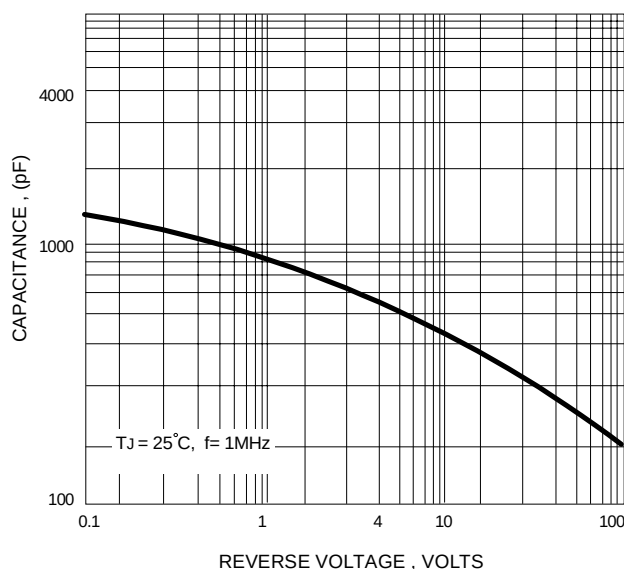


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

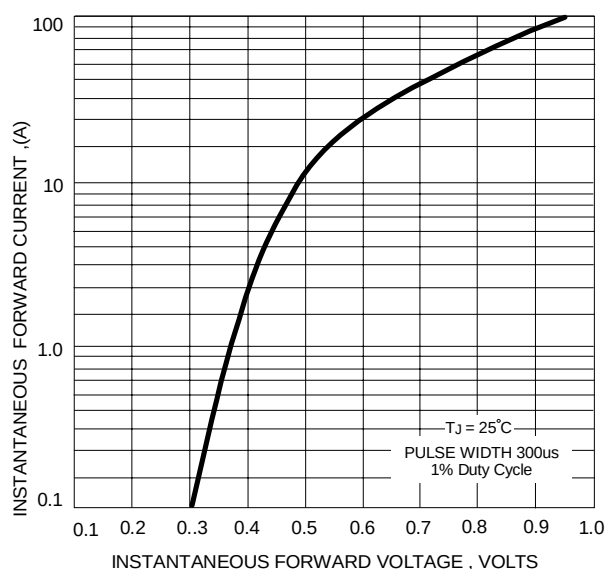


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

