沛倫股份有限公司
Compact Technology Corp.

SB340L

EXCELLENT SCHOTTKY RECTIFIERS

REVERSE VOLTAGE 40 Volts
FORWARD CURRENT 3 Amperes

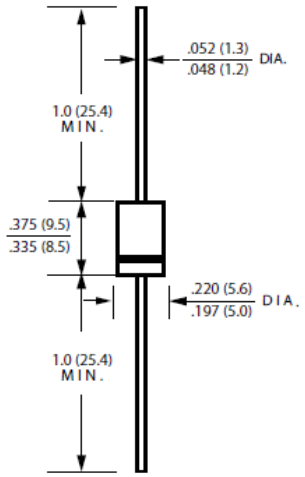
FEATURES

- Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Excellent Schottky technology

MECHANICAL DATA

- Case: DO-201AD
- Polarity: Cathode Band
- Weight: Approximated 1.071 grams

DO-201AD



Dimensions in inches and (millimeters)

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	SB340L	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Reverse Voltage	V_{RMS}	31.5	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum Instantaneous Forward Voltage IF=3A,@25°C	V_F	0.48 Max.	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=125°C	I_R	 0.2 50	mA
Maximum Average Forward Rectified Current	I_F	3	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	80	A
Typical Junction Capacitance(NOTE1)	Cj	420	pF
Maximum Thermal Resistance	$R_{\theta Jc}$	20	˚C/W
Junction and StorageTemperature Range	T_J, T_{STG}	-55 to +150	°C

NOTES: 1 Measured at 1 0MHZ and applied reverse voltage of 4 0V DC

Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

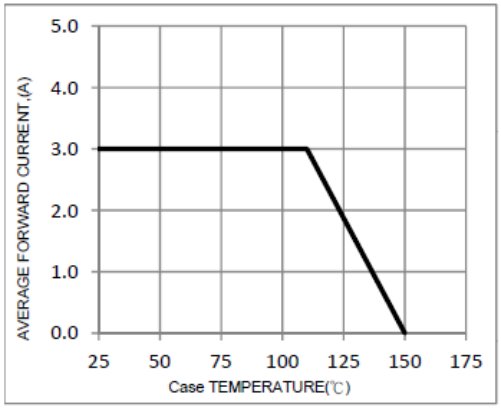


FIG. 2-Typical Forward Characteristics

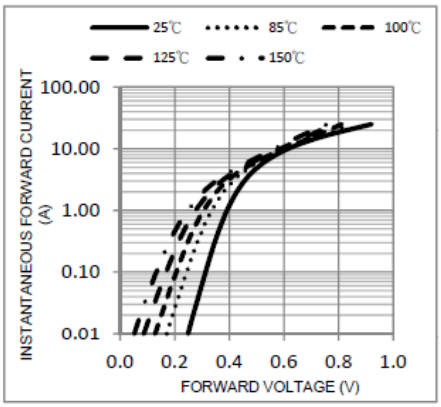


FIG. 3-Maximum Non-Repetitive Forward Surge Current

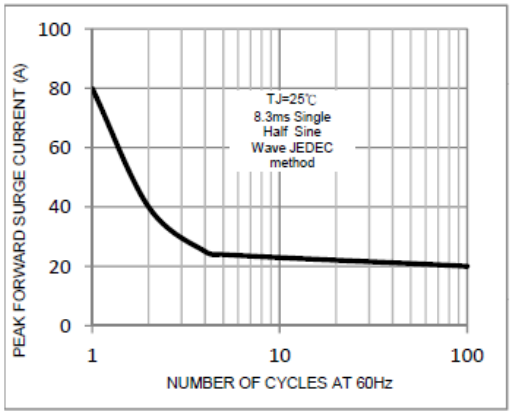


FIG. 4-Typical Reverse Characteristics

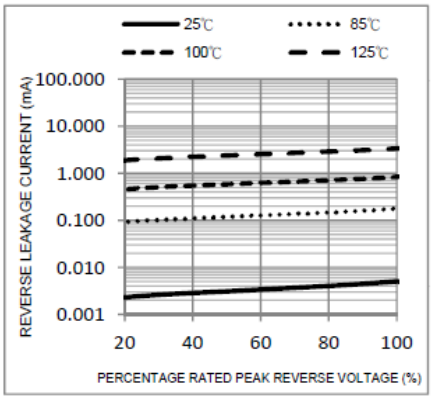


FIG. 5-Typical Junction Capacitance