



浩畅半导体
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SB10100L T0-277

10.0A MPS. SCHOTTKY BARRIER RECTIFIER

产品规格书 承认书

客户确认:				公司签章:
部门	工程部	品保部	采购部	
签名				
日期				



SB10100L TO-277

SCHOTTKY BARRIER RECTIFIER

FEATURES

- Ideal for Automated Placement
- Very low profile-typical high of 1.2mm
- Low Power Losses, High Efficiency Operation
- Guardring for overvoltage protection
- Low Thermal Resistance Package
- High Operating Junction Temperature
- Plastic Case Material has UL Flammability Classification Rating 94V-O

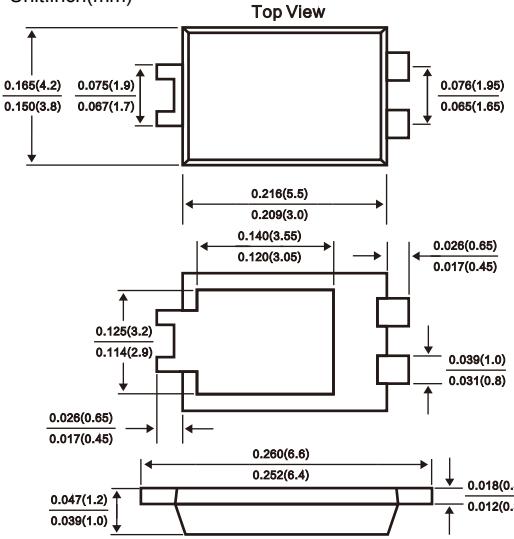
MECHANICAL DATA

- Case: TO-277M molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity:
- Weight: 0.090 grams(approx)
- Lead Free: For RoHS/Lead Free Version, Green molding compound as per IEC61249 Std



TO-277

Unit: inch(mm)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter symbol	Symbol	SB10100L	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	100	V
Maximum RSM voltage	V _{RSM}	70	V
Maximum DC blocking voltage	V _{DC}	100	V
Maximum average forward rectified current 0.375" (9.5mm) lead length (See fig. 1)	I _{F(AV)}	10.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM1}	200	A
Thermal resistance, junction to ambient	R _{θJA}	40	C/W
Operating storage temperature range	T _J	-55 to +150	C
storage temperature range	T _{TSG}	-55 to +175	C

Electrical Characteristics Ratings at 25 C ambient temperature unless otherwise specified.

Parameter symbol	Symbol	SB10100L	Unit
Maximum instantaneous forward voltage at 10.0A	V _F	0.70	V
Maximum DC reverse current TC = 25 C	I _r	200	uA
Maximum DC reverse current TC = 100 C	I _r	1000	uA
Typical junction capacitance at 4.0V, 1MHz	C _J	500	380
			PF

Notes:

1. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

SB10100L

Fig. 1 Forward Current Derating Curve

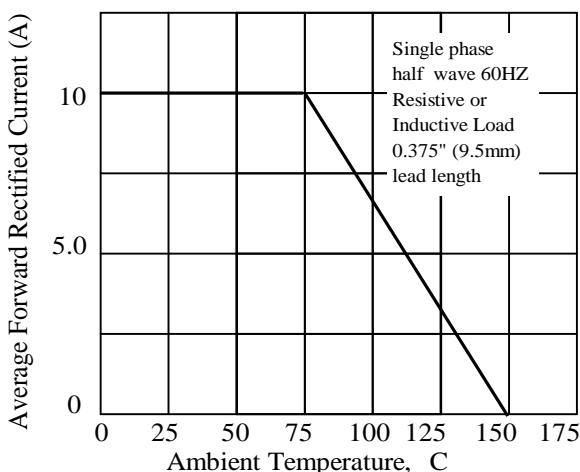


Fig. 3. Typical Instantaneous Forward Characteristics

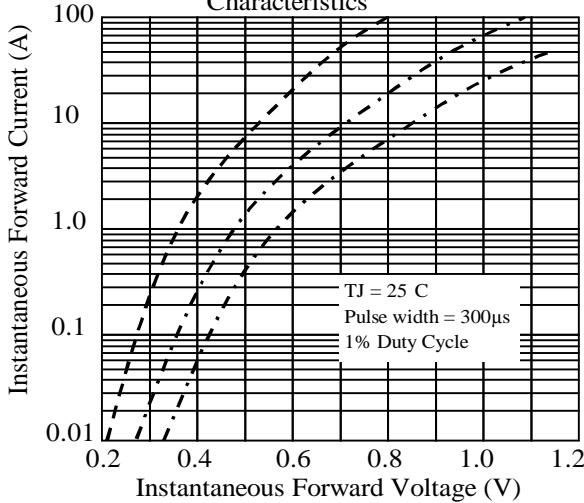


Fig. 5. typical transient thermal impedance

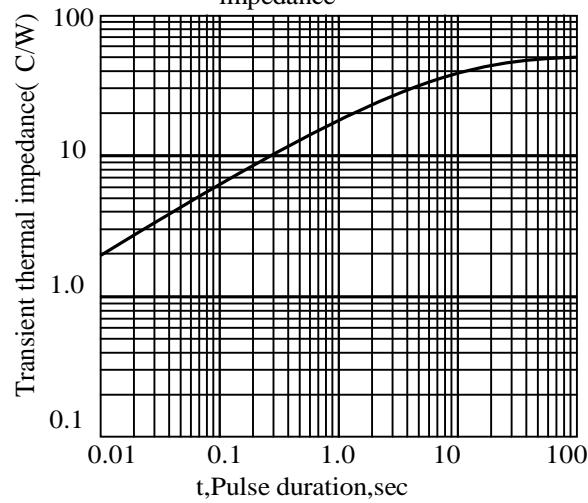


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

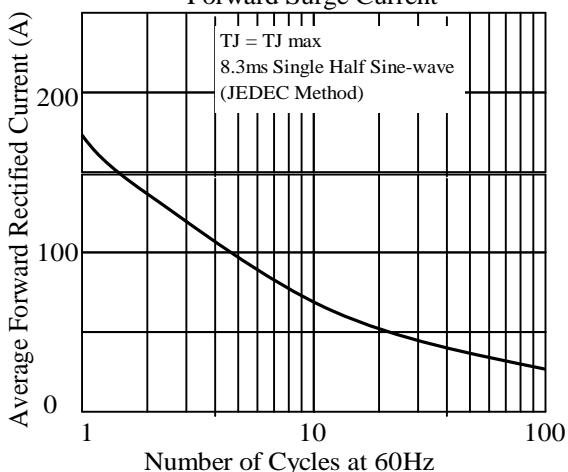


Fig. 4. Typical Reverse Characteristics

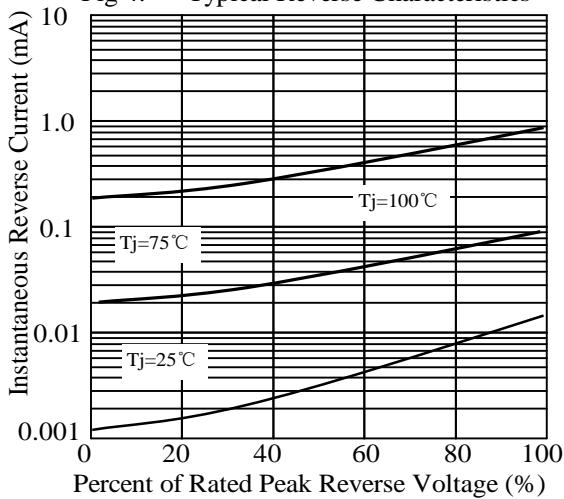


Fig. 6. Typical Junction Capacitance

