

**Small-Signal Schottky Diodes**

**VOLTAGE RANGE 10 Volts**

**FEATURES**

- \* High current rectifier Schottky diode with low VF drop
- \* Low voltage, low inductance
- \* For power supply
- \* For detection and step-up-conversion

**MECHANICAL DATA**

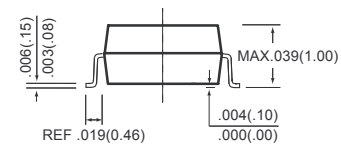
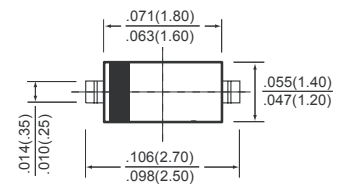
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.004 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings 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%.



**SOD-323**



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ $T_A=25^\circ\text{C}$  unless otherwise noted)

RATINGS	SYMBOL	BAT60B	UNITS
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	10	Volts
Maximum Forward Continuous Current	$I_{FM}$	3	Amps
Forward Surge Current @ $t=10\text{ms}$	$I_{FSM}$	5	Amps
Junction Capacitance (Note 1)	CT	30	pF
Maximum Power Dissipation (Note 2)	$P_{tot}$	250	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	TSTG	-65 to + 150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (@ $T_A=25^\circ\text{C}$  unless otherwise noted)

CHARACTERISTICS	SYMBOL	BAT60B	UNITS
Maximum Instantaneous Forward Voltage	@ $I_F=10\text{mA}$	300	mVolts
	@ $I_F=100\text{mA}$	380	
	@ $I_F=500\text{mA}$	500	
	@ $I_F=1000\text{mA}$	600	
Maximum Instantaneous Peverse Current	@ $V_R=5\text{V}$	15	uAmps
	@ $V_R=8\text{V}$	25	

NOTES : 1. Measured at 1MHz and applied reverse voltage of 5 volts.  
2. Part mounted on FR-4 PC board with minimum recommended pad layout.

2008-12  
REV: A

## RATING AND CHARACTERISTICS CURVES ( BAT60B )

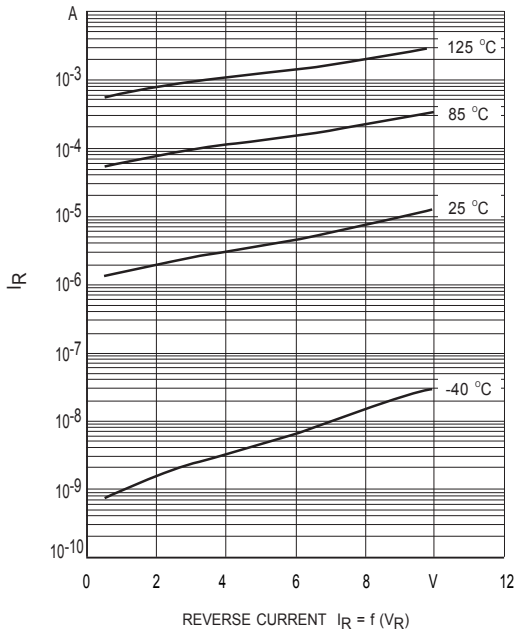


Figure 1

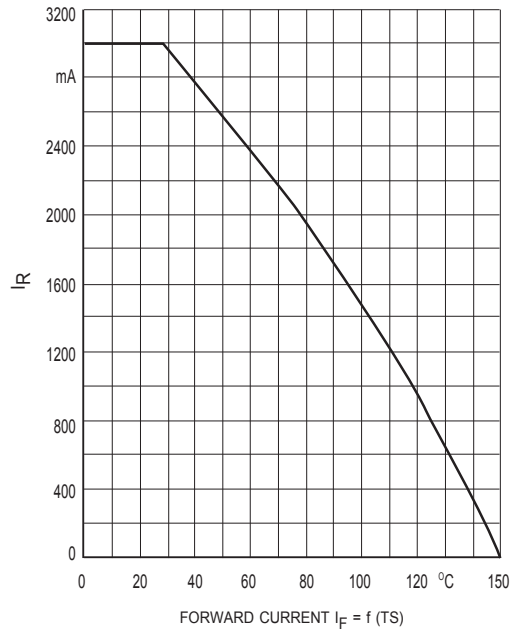


Figure 2

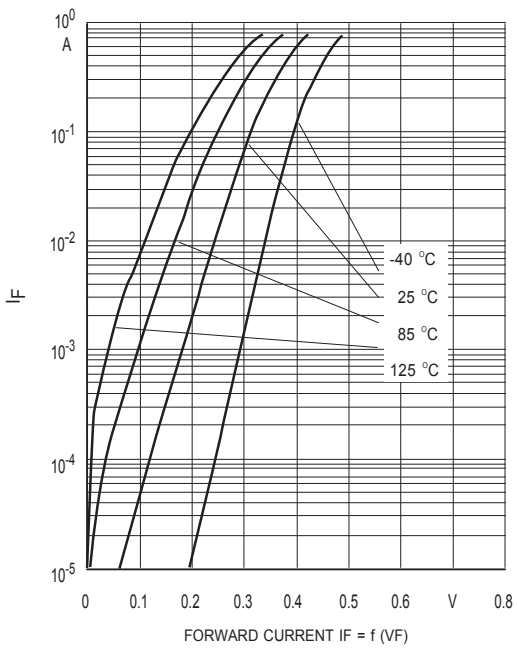


Figure 3

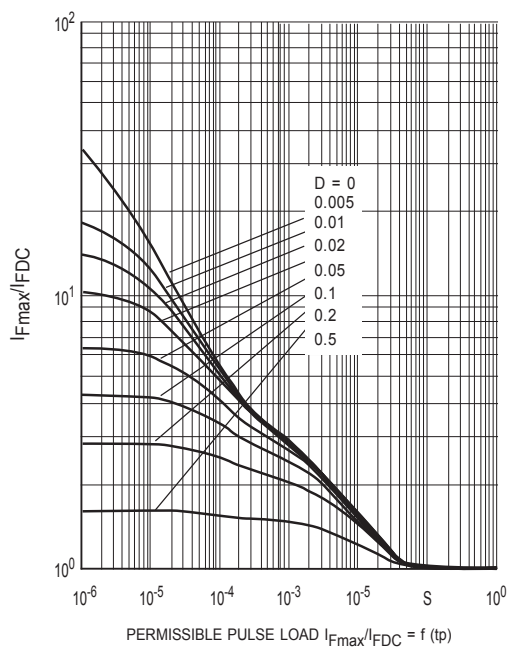


Figure 4

## RATING AND CHARACTERISTICS CURVES ( BAT60B )

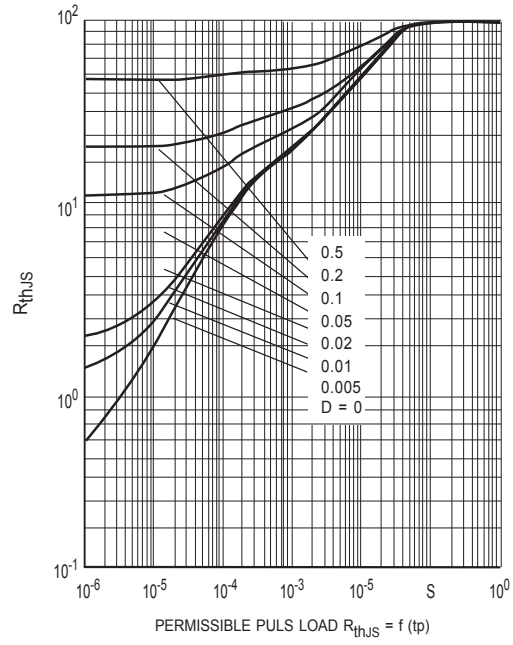


Figure 5

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