

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

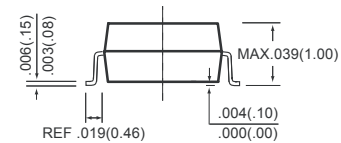
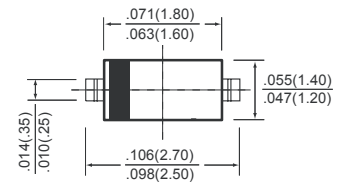
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.004 grams

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)

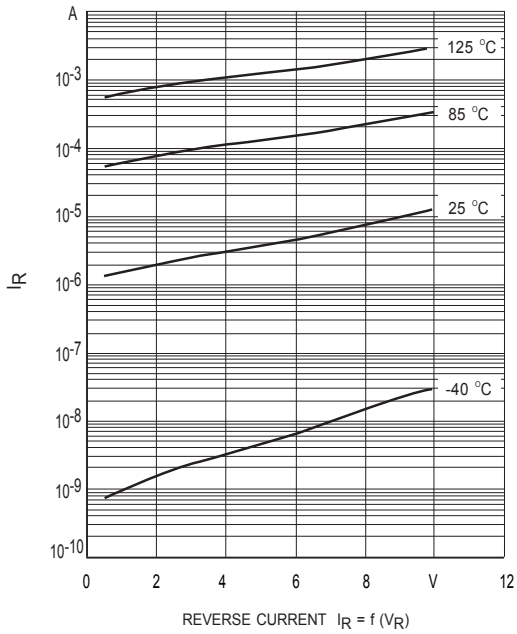


Figure 1

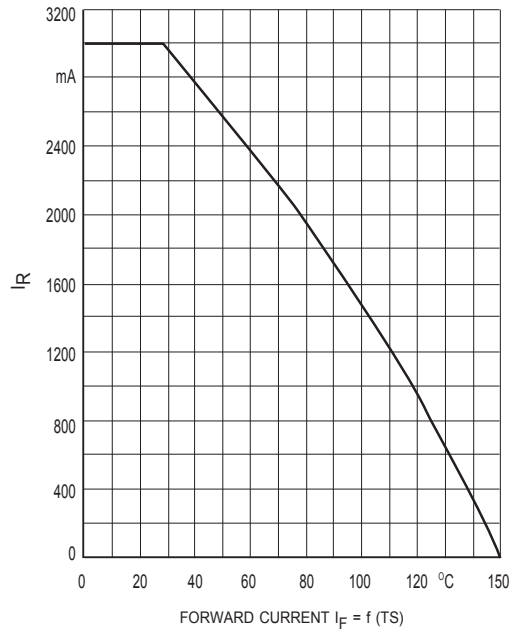


Figure 2

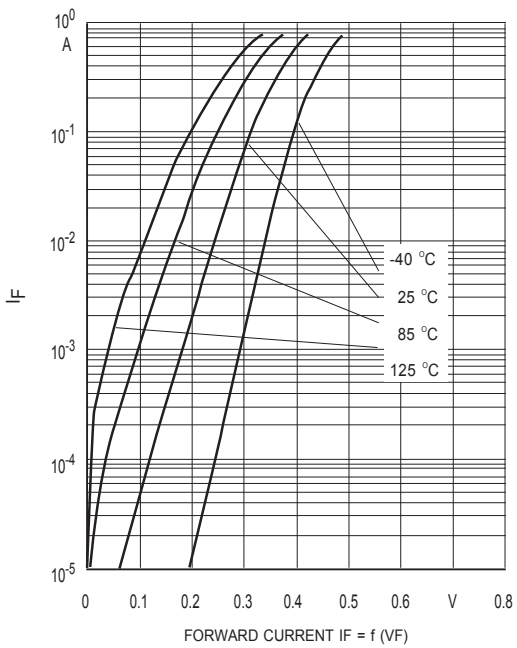


Figure 3

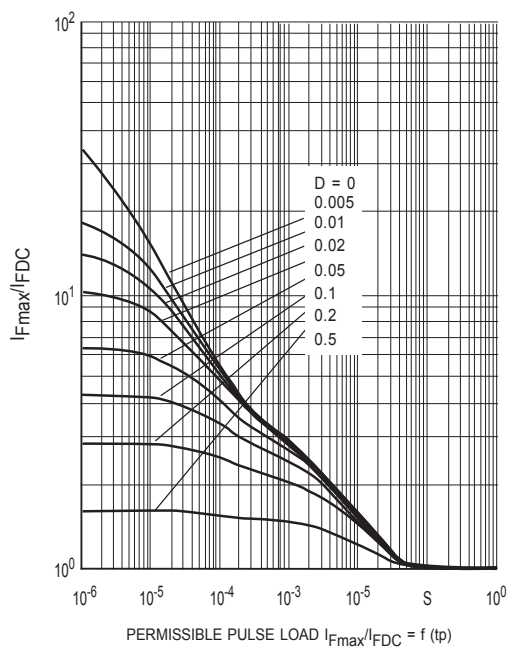


Figure 4

RATING AND CHARACTERISTICS CURVES (BAT60B)

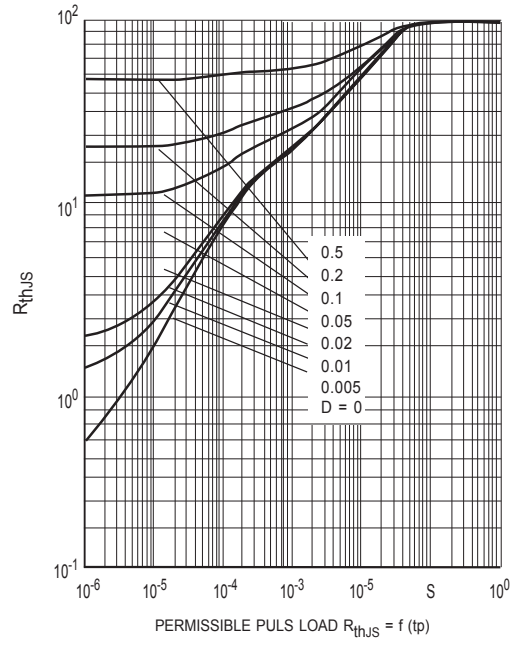


Figure 5

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