

BAT760WS SCHOTTKY BARRIER DIODE

Features

- Ultra high-speed switching
- Very low forward voltage
- Very small SMD plastic package

Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View
Marking Code: "FP"
Simplified outline SOD-323 and symbol

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	20	V
Continuous Forward Current	I _F	1	A
Non-repetitive Peak Forward Current (t = 8.3 ms Ha f Sine Wave, JEDEC method)	I _{FSM}	5	A
Junction Temperature	T _J	125	°C
Operating Ambient Temperature Range	T _{op}	- 65 to + 125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C
Thermal Resistance from Junction to Ambient	R _{θJA}	220 ¹⁾ 180 ²⁾	°C/W

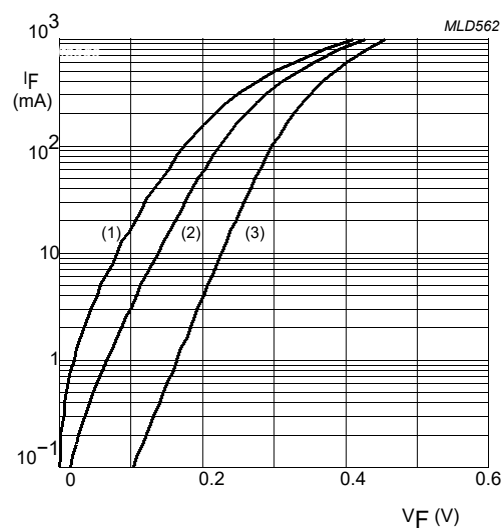
1) Mounted on P.C.B. 10 X 10 mm² Cu

2) Mounted on P.C.B. 40 X 40 mm² Cu

Characteristics at T_a = 25°C

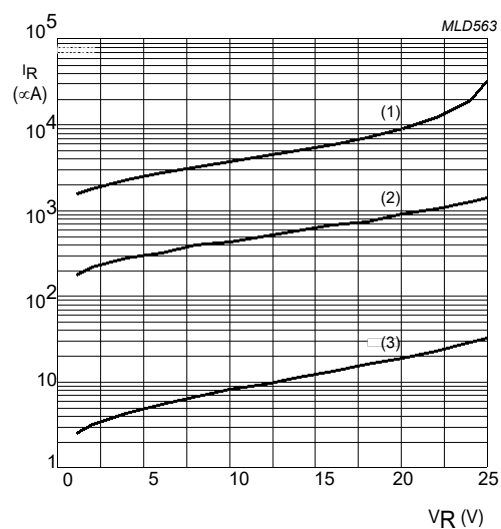
Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 10 mA at I _F = 100 mA at I _F = 1 A	V _F	0.27 0.35 0.65	V
Reverse Current at V _R = 5 V at V _R = 8 V at V _R = 15 V	I _R	10 20 50	µA
Diode Capacitance at V _R = 5 V, f = 1 MHz	C _d	25	pF

Typical Characteristics



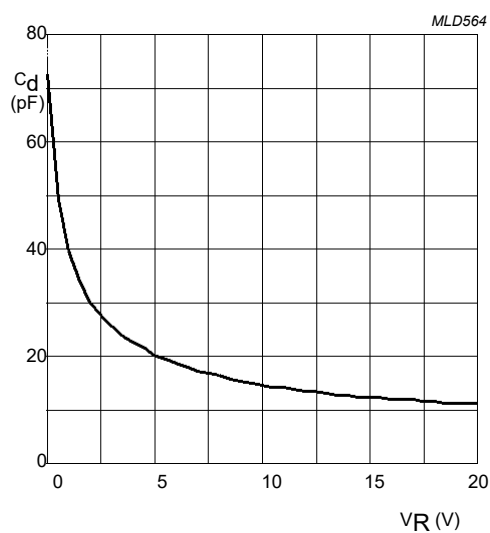
- (1) $T_{amb} = 125^\circ\text{C}$.
- (2) $T_{amb} = 85^\circ\text{C}$.
- (3) $T_{amb} = 25^\circ\text{C}$.

Fig.1 Forward current as a function of forward voltage; typical values.



- (1) $T_{amb} = 125^\circ\text{C}$.
- (2) $T_{amb} = 85^\circ\text{C}$.
- (3) $T_{amb} = 25^\circ\text{C}$.

Fig.2 Reverse current as a function of reverse voltage; typical values.



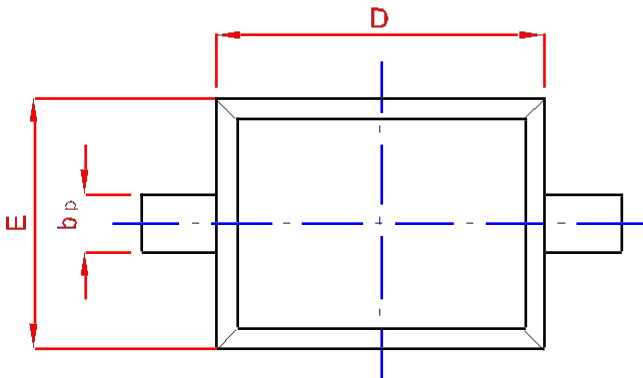
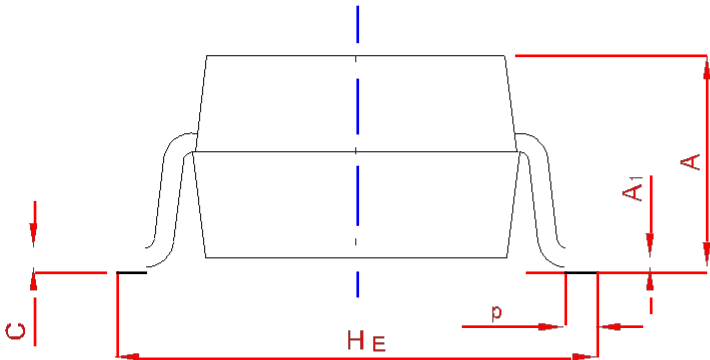
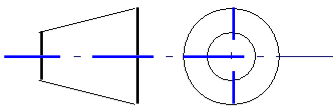
$T_{amb} = 25^\circ\text{C}$; $f = 1\text{ MHz}$.

Fig.3 Diode capacitance as a function of reverse voltage; typical values.

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b _p	C	D	E	H _E	A ₁	L _p
mm	1.20 0.90	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30	0.10 0.01	0.50 0.20