

BAT760WS-AH

Schottky Barrier Diode

Features

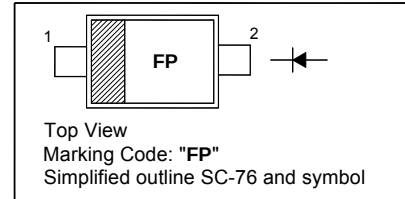
- Ultra high-speed switching
- Very low forward voltage
- Very small SMD plastic package
- AEC-Q101 is Available
- Halogen and Antimony Free(HAF), RoHS compliant

Applications

- Ultra high-speed switching
- Protection circuits

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



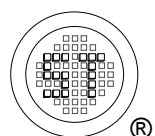
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

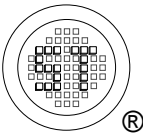
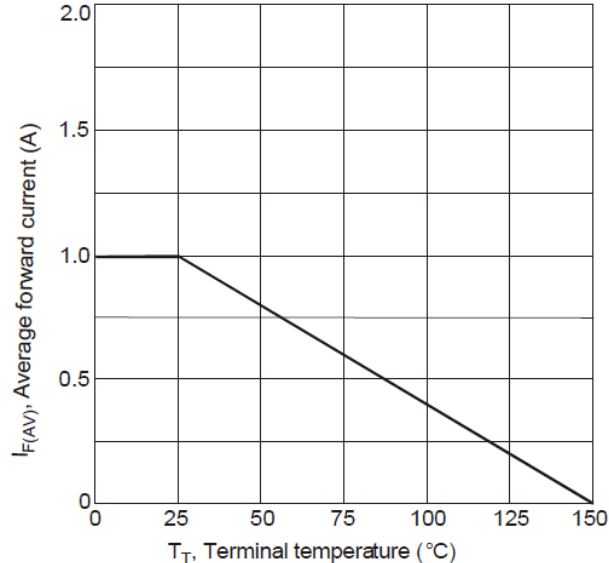
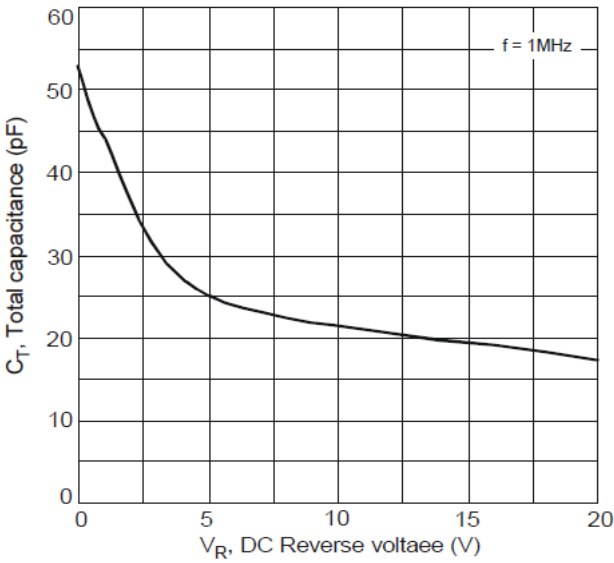
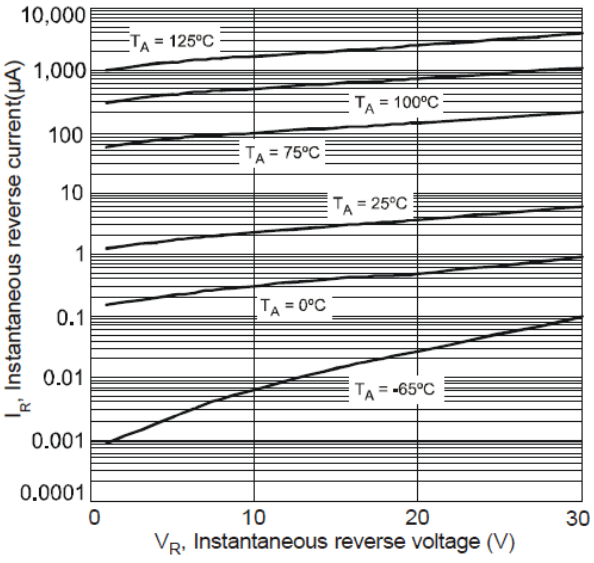
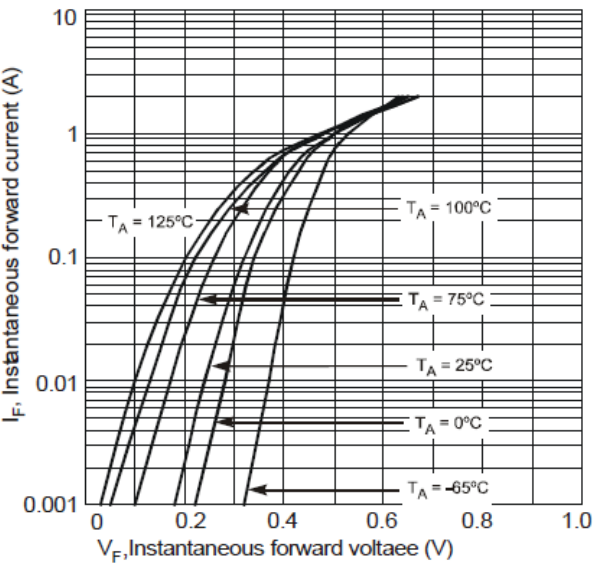
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
Continuous Forward Current	I_F	1	A
Non-repetitive Peak Forward Current (t = 8.3 ms Half Sine Wave, JEDEC method)	I_{FSM}	5	A
Thermal Resistance from Junction to Ambient ¹⁾	$R_{\theta JA}$	426	$^\circ\text{C/W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ Part mounted on FR-4 PC board with recommended pad layout.

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10\text{ mA}$ at $I_F = 100\text{ mA}$ at $I_F = 1\text{ A}$	V_F	0.27 0.36 0.65	V
Reverse Current at $V_R = 5\text{ V}$ at $V_R = 8\text{ V}$ at $V_R = 15\text{ V}$	I_R	10 20 50	μA
Diode Capacitance at $V_R = 5\text{ V}$, $f = 1\text{ MHz}$	C_d	25	pF



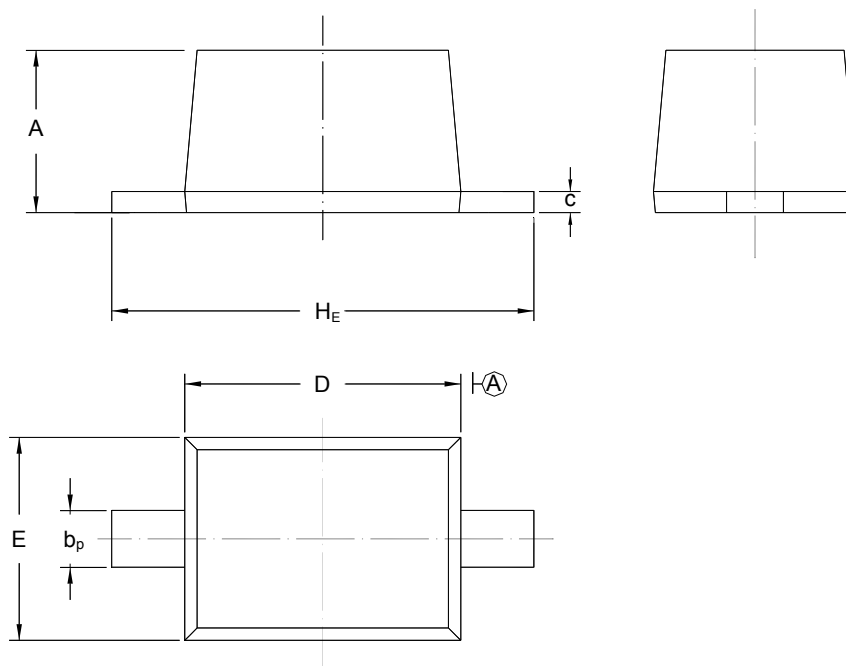


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PACKAGE OUTLINE

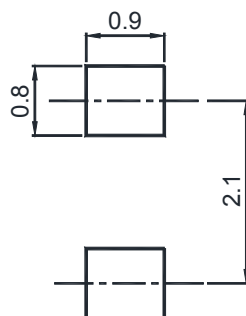
Plastic surface mounted package; 2 leads

SC-76



UNIT	A	b_p	C	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SC-76	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

