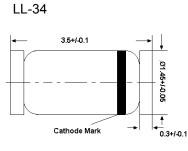
BAS85

Schottky Barrier Diode

Ultra High-Speed Switching, Voltage Clamping Protection Circuits and Blocking Applications

Features

- Low forward voltage.
- Guard ring protected.
- Hermetically-sealed leaded glass package.



Glass case MiniMELF Dimensions in mm

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V _R	30	V
Continuous Forward Current	I _F	200	mA
Average Forward Current	I _{F(AV)}	200	mA
Repetitive peak Forward Current	I _{FRM}	300	mA
Non-repetitive Peak Forward Current	I _{FSM}	5	А
Thermal Resistance from Junction to Ambient	R _{0JA}	320	K/W
Junction Temperature	Tj	125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

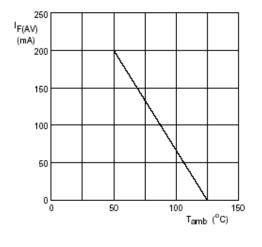
Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1 \text{ mA}$ at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 30 \text{ mA}$ at $I_F = 100 \text{ mA}$	V _F	240 320 400 500 800	mV
Reverse Current at $V_R = 25 V$	I _R	2.3	μA
Reverse Recovery Time at I_F = 10 mA, I_R = 10 mA, R_L = 100 Ω	t _{rr}	4	ns

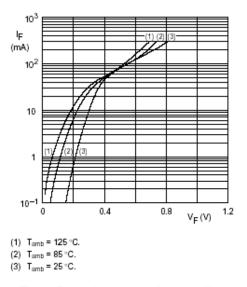


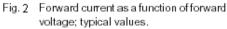
SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

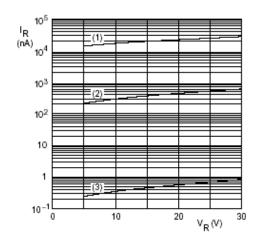












- (1) T_{amb} = 85 °C.
- (2) T_{amb} = 25 °C.
 (3) T_{amb} = -40 °C.
- Fig. 3 Reverse current as a function of reverse voltage; typical values.



SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

