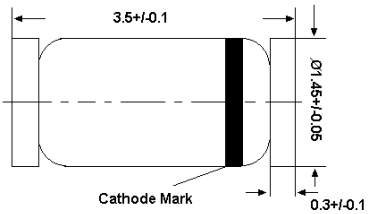
BAS85

Schottky Barrier Diode

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

LL-34



Glass case MiniMELF
Dimensions in mm

Features

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

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	A
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	320	K/W
Junction Temperature	T_j	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 mA at I_F = 1 mA at I_F = 10 mA at I_F = 30 mA at I_F = 100 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

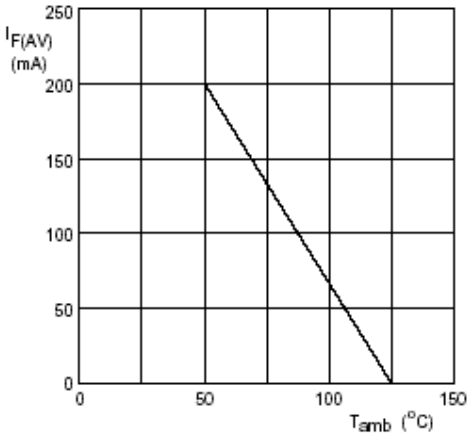
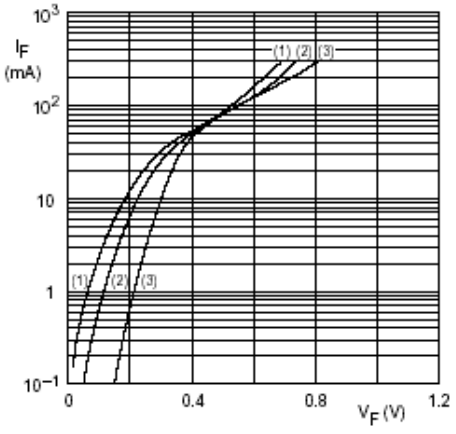
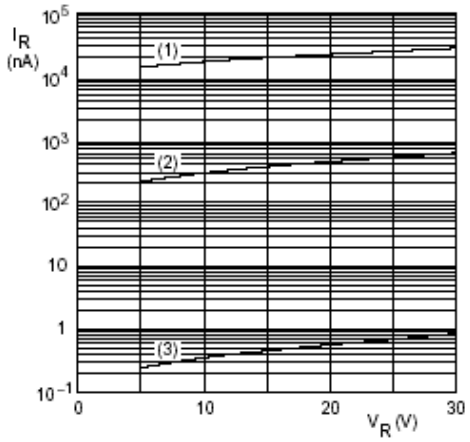


Fig. 1 Derating curve.



(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.

Fig. 2 Forward current as a function of forward voltage; typical values.



(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.