



FUKUCOM COMPANY LTD.

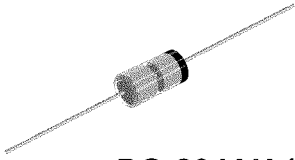
福 靈 有 限 公 司

FLAT P, 3/F, EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 2790-0314 FAX: 2790-0206

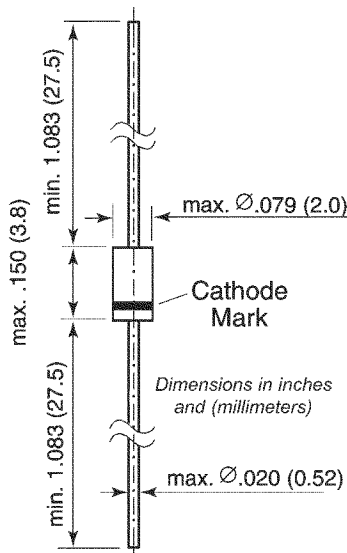
GENERAL SEMICONDUCTOR®

BAT85

Schottky Diode



DO-204AH (DO-35 Glass)



Features

- For general purpose applications.
- This diode features low turn-on voltage. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- This diode is also available in the MiniMELF case with type designation BAS85.

Mechanical Data

Case: DO-35 Glass Case

Weight: approx. 0.13g

Packaging Codes/Options:

- D7/10K per 13" reel (52mm tape), 20K/box
- D8/10K per Ammo tape (52mm tape), 20K/box

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	30	V
Forward Continuous Current at T _{amb} = 25°C	I _F	200 ⁽¹⁾	mA
Peak Forward Current at T _{amb} = 25°C	I _{FM}	300 ⁽¹⁾	mA
Surge Forward Current at t _p < 1s, T _{amb} = 25°C	I _{FSM}	600 ⁽¹⁾	mA
Power Dissipation at T _{amb} = 65°C	P _{tot}	200 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	430 ⁽¹⁾	°C/W
Maximum Junction Temperature	T _j	125	°C
Ambient Operating Temperature Range	T _A	-65 to +125	°C
Storage Temperature Range	T _S	-65 to +150	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 10μA (pulsed)	30	—	—	V
Leakage Current	I _R	V _R = 25V	—	—	2	μA
Forward Voltage Pulse Test t _p < 300 μs, δ < 2%	V _F	I _F = 0.1mA I _F = 1mA I _F = 10mA I _F = 30mA I _F = 100mA	—	—	0.24 0.32 0.4 — 0.8	V
Capacitance	C _{tot}	V _R = 1V, f = 1MHz	—	—	10	pF
Reverse Recovery Time	t _{rr}	I _F = 10mA to I _R = 10mA to I _R = 1mA	—	—	5	ns

Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature



FUKUCOM COMPANY LTD.

福靈有限公司

FLAT P, 3/F, EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 2790-0314 FAX: 2790-0206

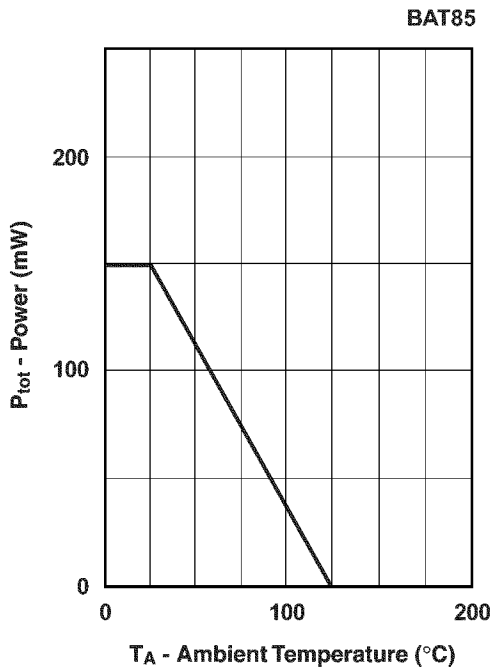


BAT85

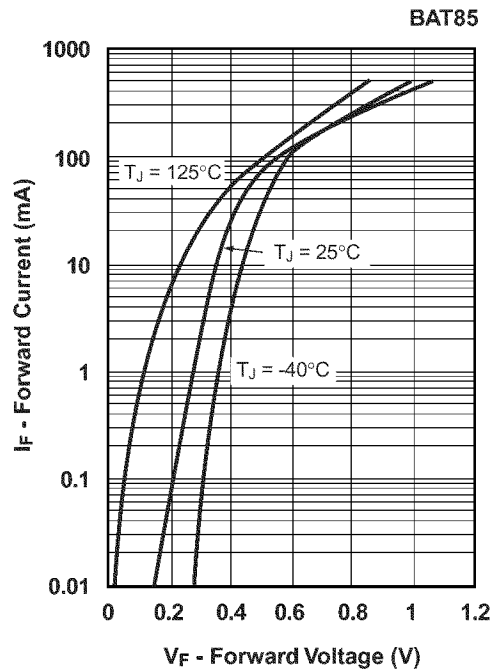
Schottky Diode

Ratings and Characteristic Curves

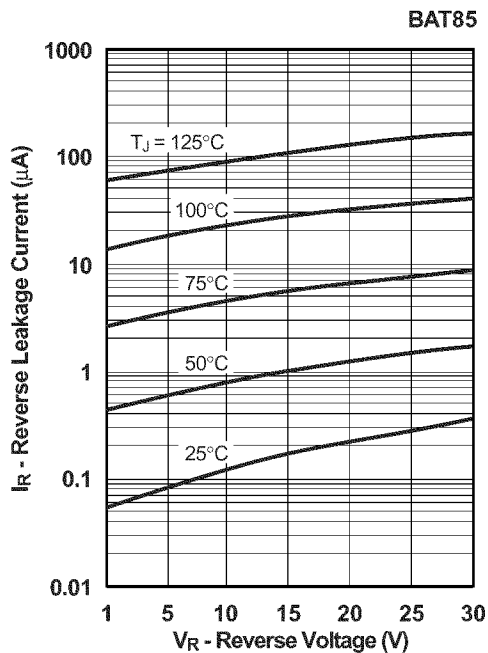
Admissible Power Dissipation
vs. Ambient Temperature



Typical Instantaneous
Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

