

Schottky barrier diode

BAT85

FEATURES

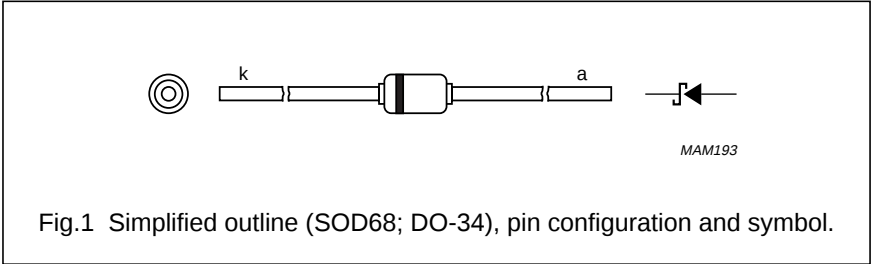
- Low forward voltage
- Guard ring protected
- Hermetically-sealed leaded glass package.

APPLICATIONS

- Ultra high-speed switching
- Voltage clamping
- Protection circuits
- Blocking diodes.

DESCRIPTION

Planar Schottky barrier diode with an integrated protection ring against static discharges, encapsulated in a hermetically-sealed subminiature SOD68 (DO-34) package. The diode is suitable for mounting on a 2 E (5.08 mm) pitch.



LIMITING VALUES

In accordance with the Absolute Maximum Rating System (IEC 134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V_R	continuous reverse voltage		—	30	V
I_F	continuous forward current		—	200	mA
$I_{F(AV)}$	average forward current	PCB mounting, lead length = 4 mm; $V_{RWM} = 25\text{ V}$; $a = 1.57$; $\delta = 0.5$; $T_{amb} = 50\text{ }^\circ\text{C}$; see Fig.2	—	200	mA
I_{FRM}	repetitive peak forward current	$t_p \leq 1\text{ s}$; $\delta 0.5$	—	300	mA
I_{FSM}	non-repetitive peak forward current	$t_p \leq 10\text{ ms}$	—	5	A
T_{stg}	storage temperature		−65	+150	$^\circ\text{C}$
T_j	junction temperature		—	125	$^\circ\text{C}$
T_{amb}	operating ambient temperature		−65	+125	$^\circ\text{C}$