

SCHOTTKY BARRIER DIODE

Features

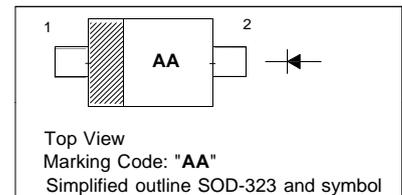
- Small surface mounting type
- Ultra low V_F

Applications

- For switching power supply
- Low-power rectification

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	25	V
Reverse Voltage	V_R	20	V
Forward Current	I_F	1	A
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I_{FSM}	3	A
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$	V_F	0.45	V
Reverse Current at $V_R = 20\text{ V}$	I_R	200	μA

Note: ESD sensitive product handling required.

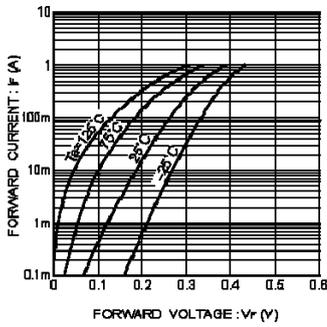


Fig.1 Forward characteristics

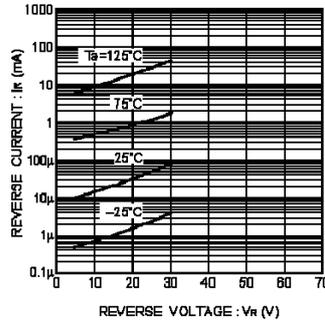


Fig.2 Reverse characteristics

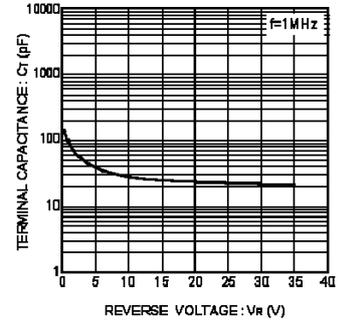


Fig.3 Capacitance between terminals characteristics

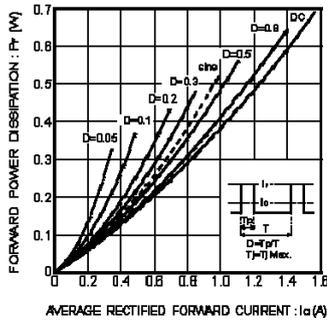


Fig.4 Forward power dissipation characteristics

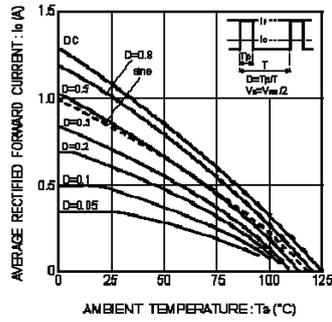


Fig.5 Derating curve ($I_a - T_a$)