

Silicon Epitaxial Planar Schottky Barrier Diode

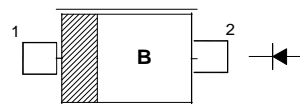
for low current rectification and high speed switching applications

Features

- Extremely small surface mounting type
- High reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
 Marking Code: "B"
 Simplified outline SOD-523 and symbol

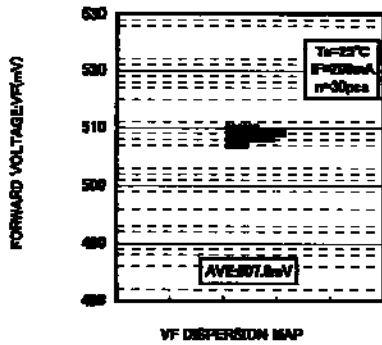
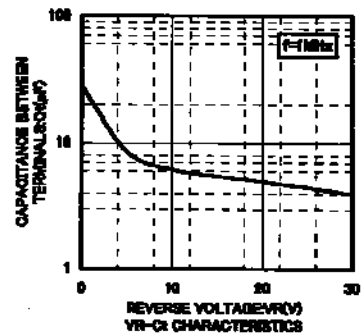
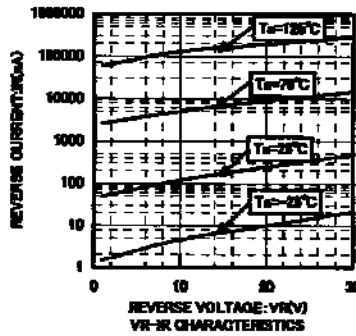
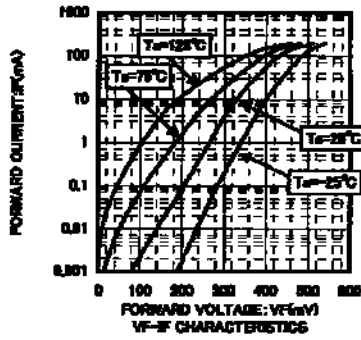
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	30	V
Mean Rectifying Current	I _{F(AV)}	200	mA
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I _{FSM}	1	A
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	- 40 to + 125	°C

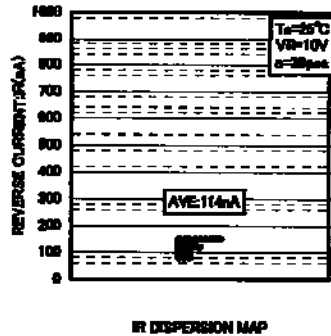
Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 200 mA	V _F	0.6	V
Reverse Current at V _R = 10 V	I _R	1	μA

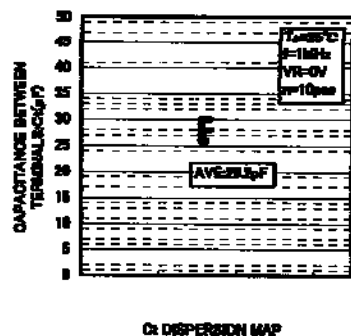
Note: ESD sensitive product handling required.



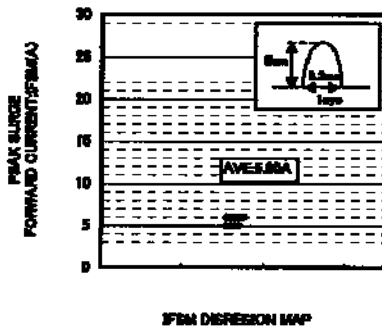
VF DISPERSION MAP



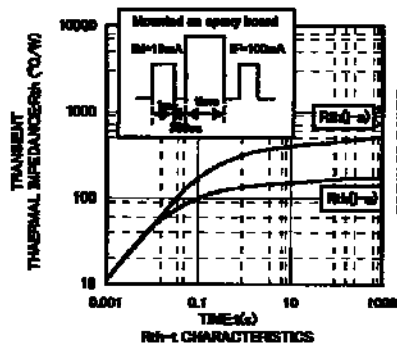
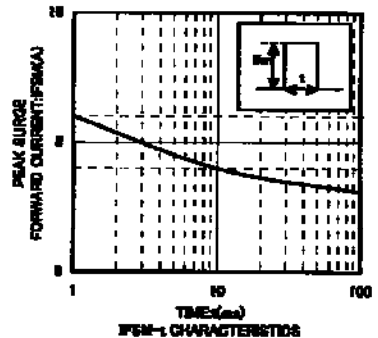
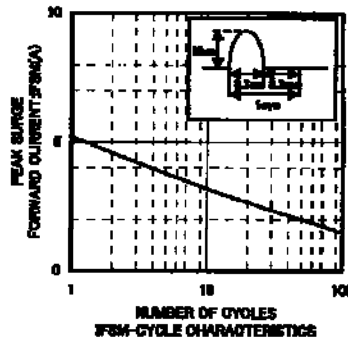
VR DISPERSION MAP



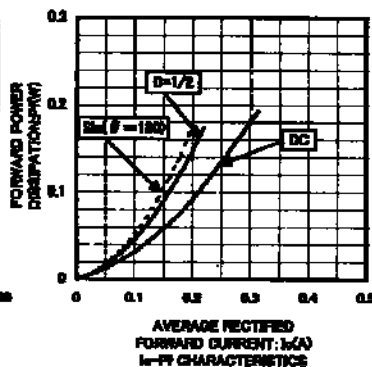
CR DISPERSION MAP



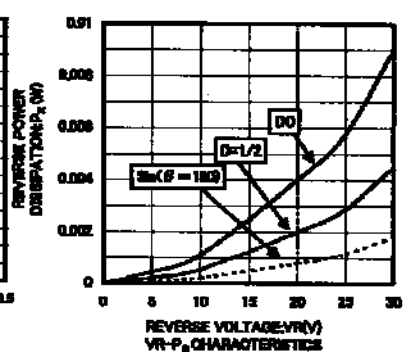
IFSM DISPERSION MAP



Rth-t CHARACTERISTICS



I-F CHARACTERISTICS

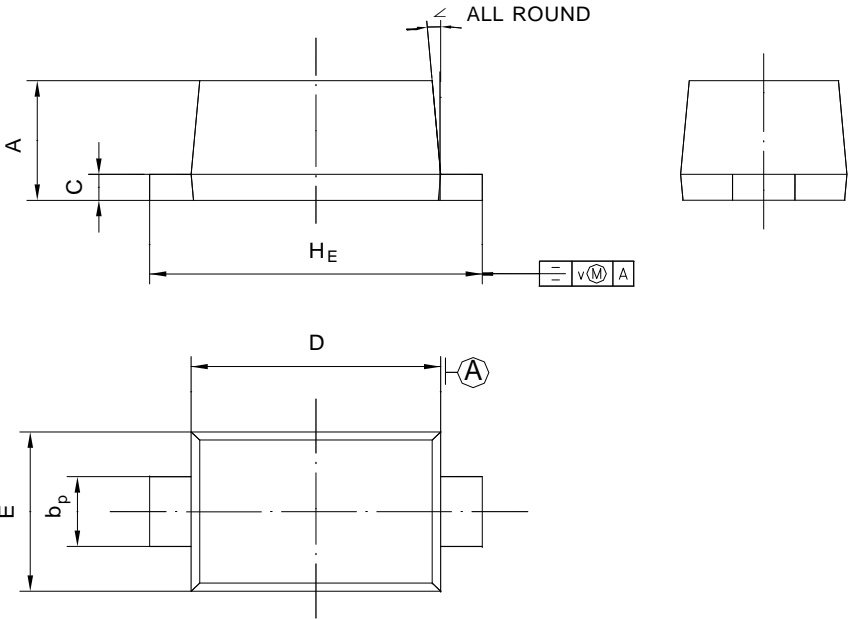


VR-Po CHARACTERISTICS

PACKAGE OUTLINE

SOD-523

Plastic surface mounted package; 2 leads



UNIT	A	b_p	C	D	E	H_E	V	\angle
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

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