

RB520S-40-AH

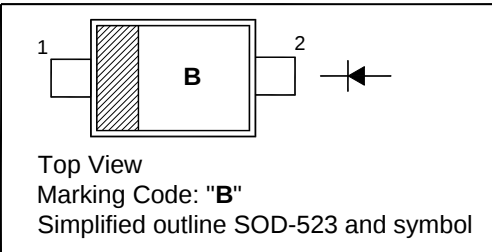
Silicon Epitaxial Planar Schottky Barrier Diode

Features

- Extremely small surface mounting type
- High reliability
- AEC-Q101 is Available
- Halogen and Antimony Free(HAF), RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

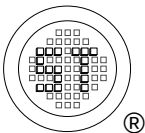


Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Mean Rectifying Current	$I_{F(AV)}$	200	mA
Peak Forward Surge Current	I_{FSM}	1	A
Junction Temperature	T_j	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^{\circ}\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10\text{ mA}$ at $I_F = 100\text{ mA}$	V_F	0.39 0.55	V
Reverse Current at $V_R = 10\text{ V}$ at $V_R = 40\text{ V}$	I_R	1 10	μA



Electrical Characteristics Curves

Fig.1 Typical Forward Characteristics

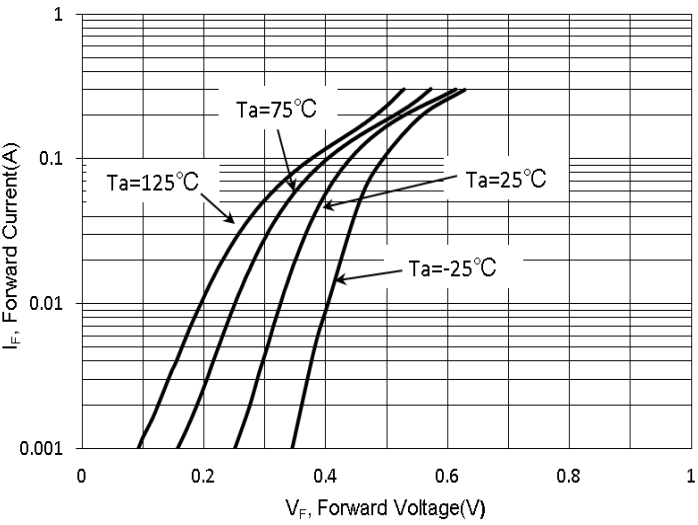


Fig.2 Typical Reverse Characteristics

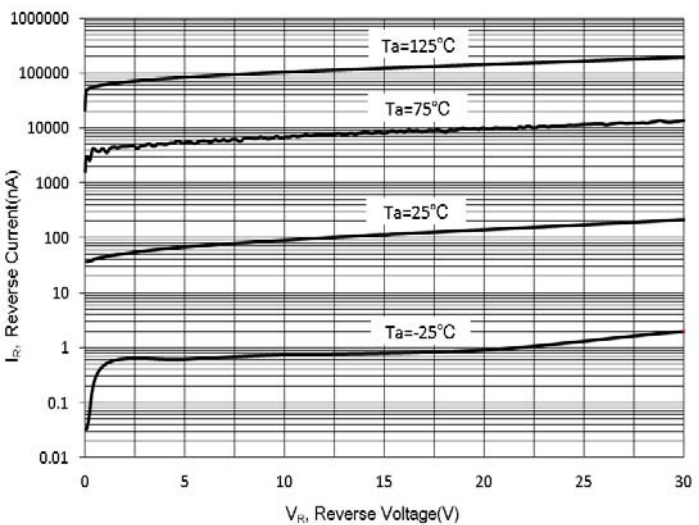


Fig.3 Typical Total Capacitance vs. Reverse Voltage

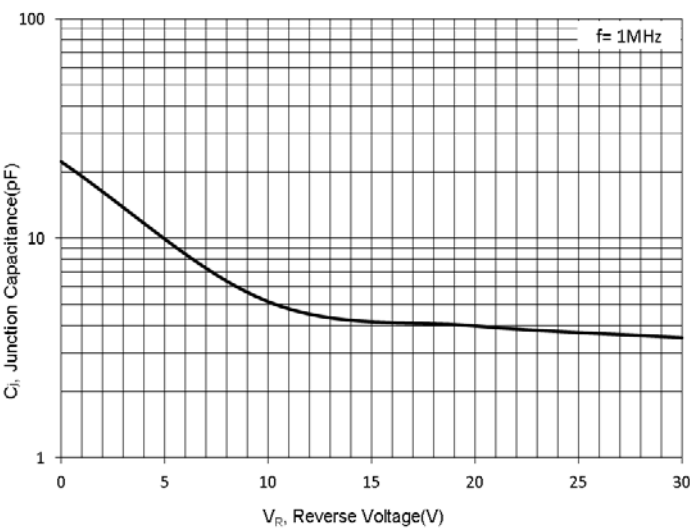
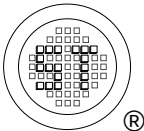
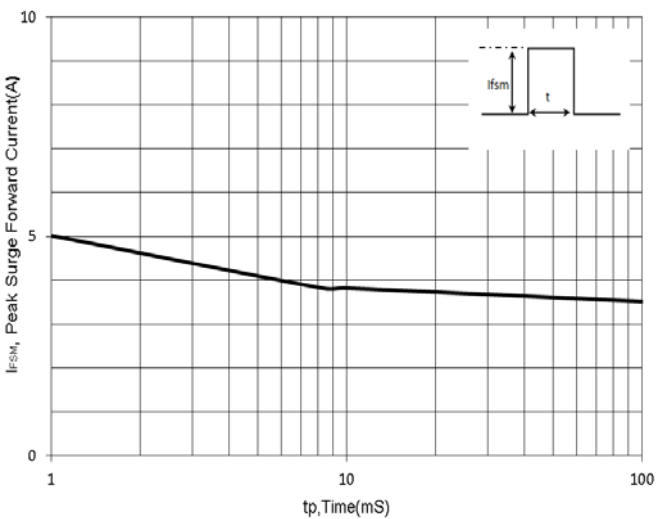


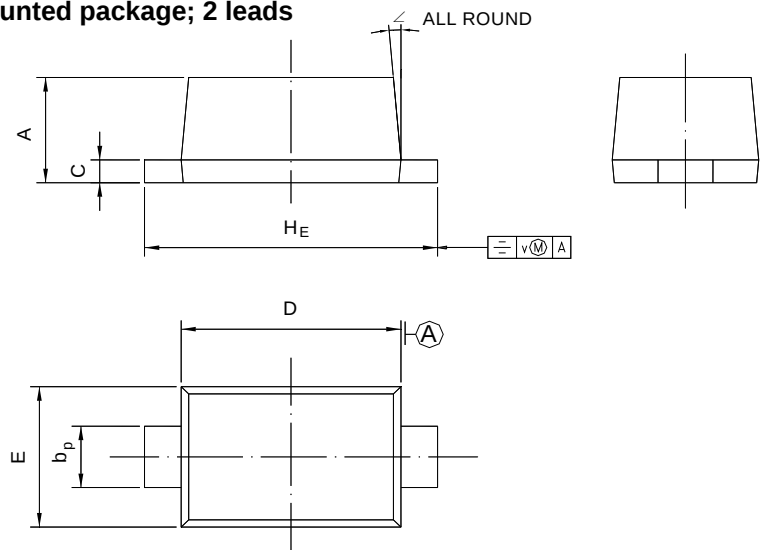
Fig.4 Maximum Non-Repetitive Surge Current



PACKAGE OUTLINE

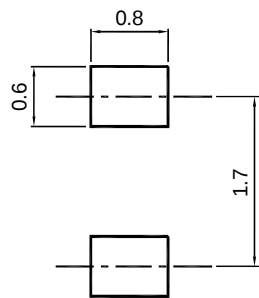
Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	V	∠
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°

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	(inch)	mm	(inch)	
SOD-523	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

Marking information

" III " = Cathode line
" B " = Part No.
" • " = HAF (Halogen and Antimony Free)
Font type: Arial

