

DESCRIPTION

Silicon epitaxial planar

The RB520S-30 is available in SOD-523 Package.

ORDERING INFORMATION

Package Type	Part Number			
SOD-523	RB520S-30			
Note	Package=3,000Tape/Reel			
AiT provides all RoHS Compliant Products				

PIN DESCRIPTION



FEATURES

- Extremely small surface mounting type.
- Extremely Fast Switching Speed
- Extremely Low Forward Voltage
 0.6V(max) @I_F = 200mA
- Low Reverse Current
- Available in SOD-523 Package

APPLICATIONS

 Low current rectification and high speed switching



ABSOLUTE MAXIMUM RATINGS

T_A = 25°C

V _R , DC reverse voltage	30V
Io, Mean rectifying current	200mA
I _{FSM} , Peak forward surge current	1A
T _J , Junction temperature	125°C
T _{stg} , Storage temperature	-40°C ~ +125°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

T_A = 25°C

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	VF	I _F = 200mA	-	-	0.60	V
Reverse current	I _R	V _R = 10V	-	-	1.0	μA

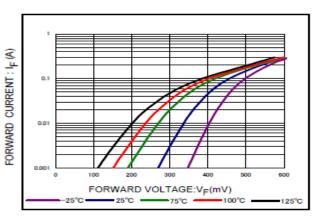


TYPICAL CHARACTERISTICS

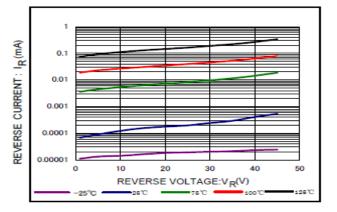
T_A = 25°C

3.

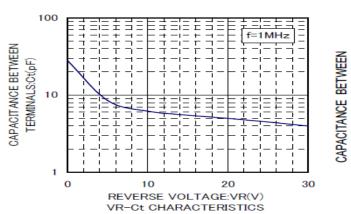
1. Forward characteristics



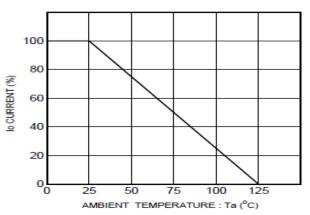
2. Reverse characteristics



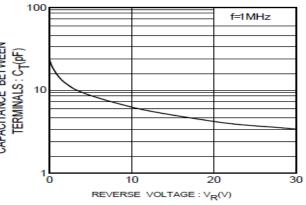
4. Capacitance between terminals characteristics

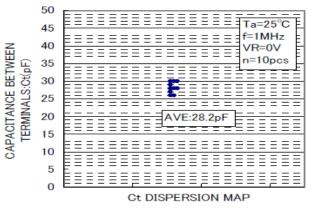


5. Derating curve (mounting on glass poxy PCBs)

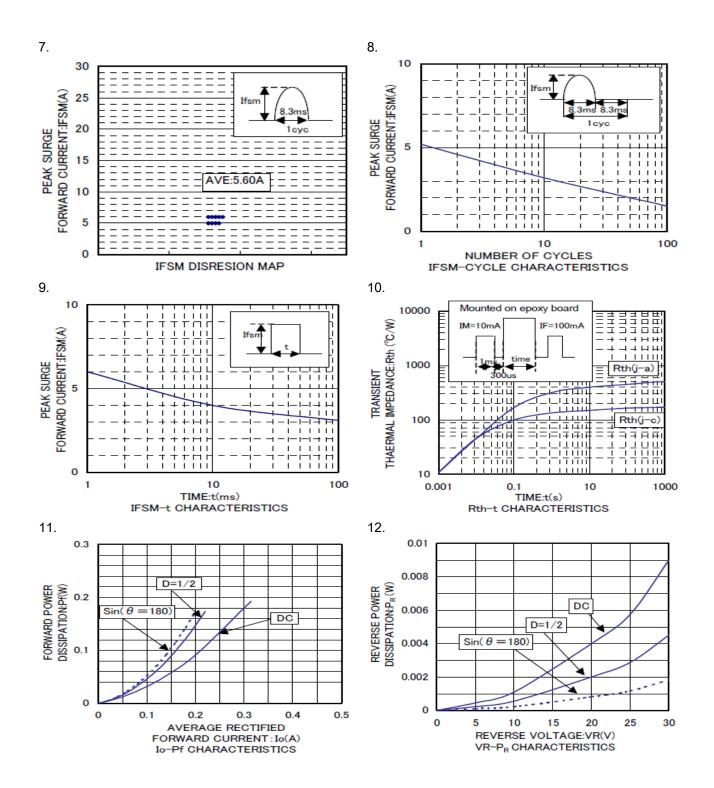








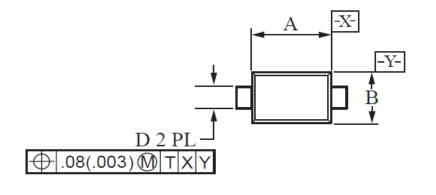


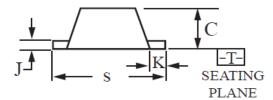




PACKAGE INFORMATION

Dimension in SOD-523 Package (Unit: mm)





DIM	INCHES		MILLIMETERS		
	MIN	MAX	MIN	MAX	
А	1.10	1.30	0.043	0.051	
В	0.70	0.90	0.028	0.035	
С	0.50	0.70	0.020	0.028	
D	0.25	0.35	0.010	0.014	
J	0.07	0.20	0.0028	0.0079	
К	0.15	0.25	0.006	0.010	
S	1.50	1.70	0.059	0.067	



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