DESCRIPTION

Silicon epitaxial planar.

The RB550V-30 is available in SOD-523 package.

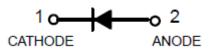
FEATURES

- Small surface mounting type
- Low V_F, Low I_R
- High reliability
- Available in SOD-523 package

ORDERING INFORMATION

Package Type	Part Number			
SOD-523	RB550V-30			
Note	3,000pcs/Reel			
AiT provides all RoHS Compliant Products				

PIN DESCRIPTION



APPLICATIONS

General rectification

ABSOLUTE MAXIMUM RATINGS

$T_A = 25^{\circ}C$

V _{RM} , Reverse voltage (repetitive peak)	30V
V _R , Reverse voltage (DC)	30V
Io, Average rectified forward current	1A
I _{FSM} , Forward current surge peak	3A
T _J , Junction temperature	150°C
T _{stg} , Storage temperature	-40°C ~ +150°C

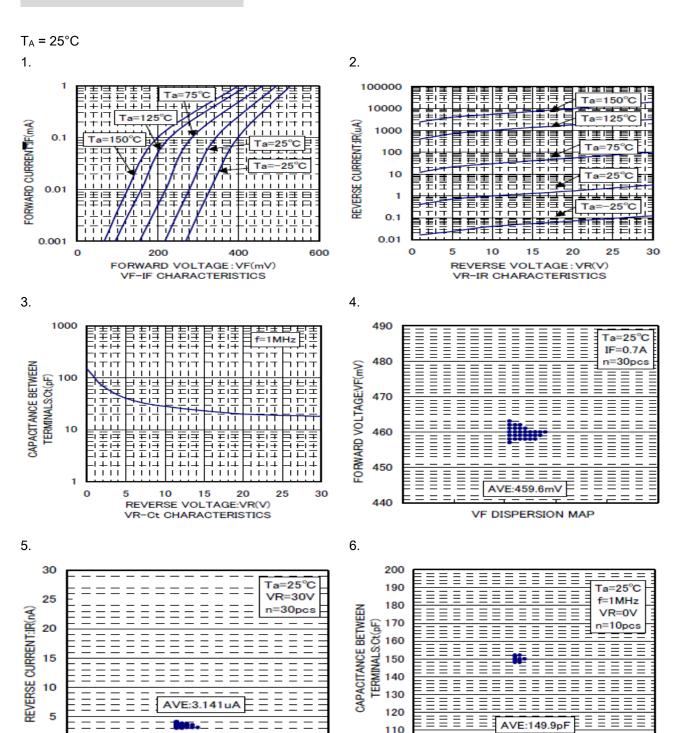
Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods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

ELECTRICAL CHARACTERISTICS

 $T_A = 25^{\circ}C$

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F 1	I _F =100mA	-	-	0.39	V
	V _F 2	I _F =700mA	-	-	0.49	V
	V _F 3	I _F =1A	-	-	0.52	μΑ
Reverse current	I _R	V _R =10V	-	1	30	μΑ

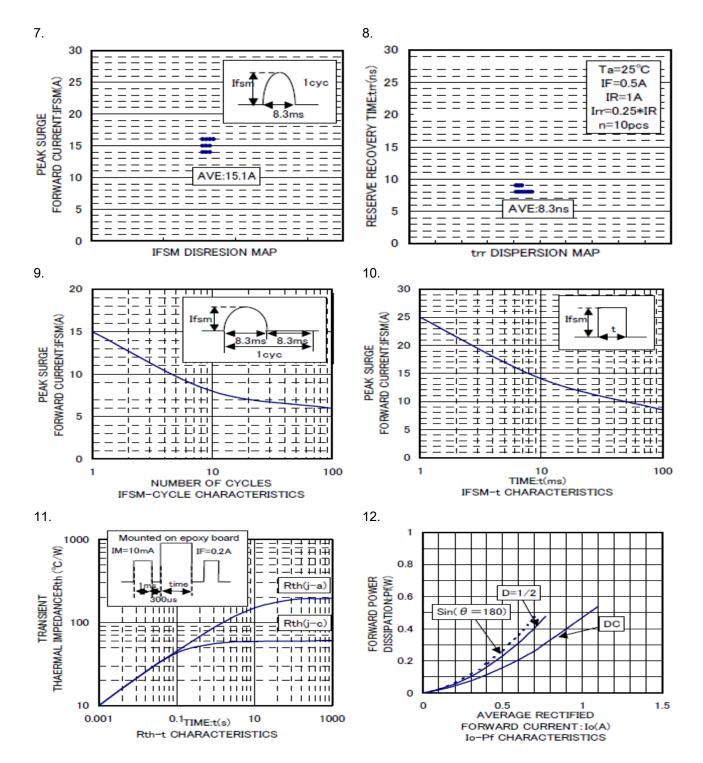
TYPICAL CHARACTERISTICS

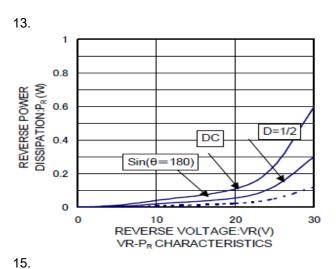


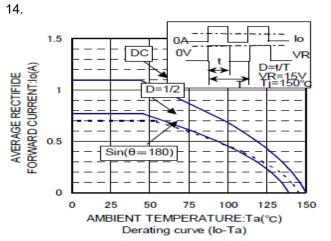
110 100

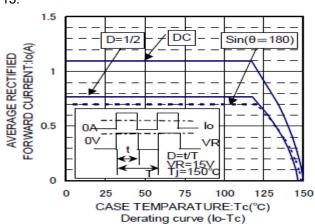
IR DISPERSION MAP

Ct DISPERSION MAP



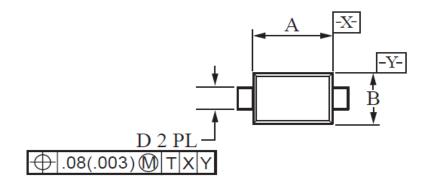


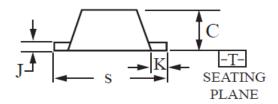




PACKAGE INFORMATION

Dimension in SOD-523 Package (Unit: mm)





DIM	INCHES		MILLIMETERS		
	MIN	MAX	MIN	MAX	
Α	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	
K	0.15	0.25	0.006	0.010	
S	1.50	1.70	0.059	0.067	

IMPORTANT NOTICE

AiT Semiconductor Inc. (AiT) reserves the right to make changes to any its product, specifications, to discontinue any integrated circuit product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied on is current.

AiT Semiconductor Inc.'s integrated circuit products are not designed, intended, authorized, or warranted to be suitable for use in life support applications, devices or systems or other critical applications. Use of AiT products in such applications is understood to be fully at the risk of the customer. As used herein may involve potential risks of death, personal injury, or servere property, or environmental damage. In order to minimize risks associated with the customer's applications, the customer should provide adequate design and operating safeguards.

AiT Semiconductor Inc. assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.