

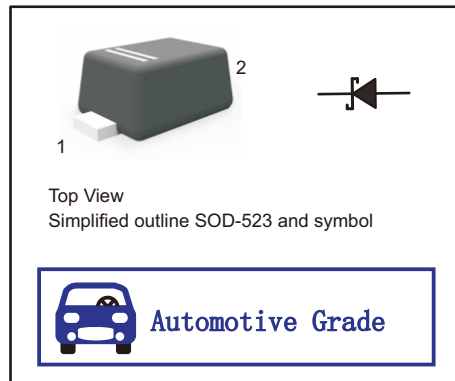
SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Low Forward Voltage Drop
- Surface Mount Package Ideally Suited for Automated Insertion
- Lead, Halogen and Antimony Free, RoHS Compliant "Green" Device
- Qualified to AEC-Q101 Standards for High Reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	RB521S-30WT	Units
Reverse Voltage	V_R	30	V
Forward Continuous Current	I_F	200	mA
Non-Repetitive Peak Forward Surge Current @t = 8.3ms	I_{FSM}	1	A
Power dissipation	P_D	200	mW
Forward Voltage $I_F=10mA$	V_F	0.35(Max)	V
Peak Reverse Current $V_R=10V$	I_R	10.0(Max)	uA
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 ~ +125	°C



TYPICAL ELECTRICAL CHARACTERISTICS

Fig.1 Vf-I_F Characteristics

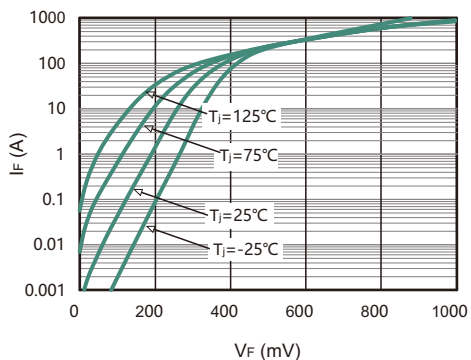


Fig.2 Vr-I_R Characteristics

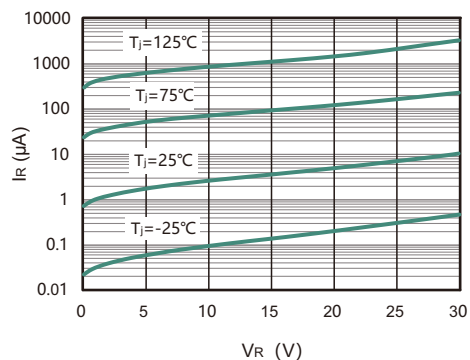


Fig.3 Vr-C_t Characteristics

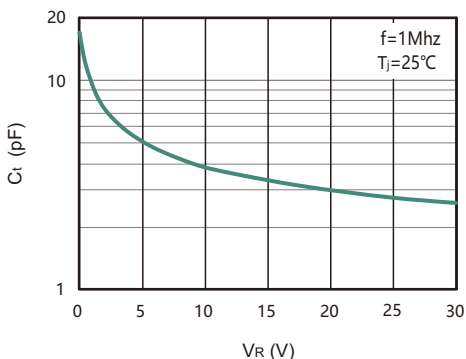


Fig.4 I_{FSM-t} Characteristics
Forward Surge Current

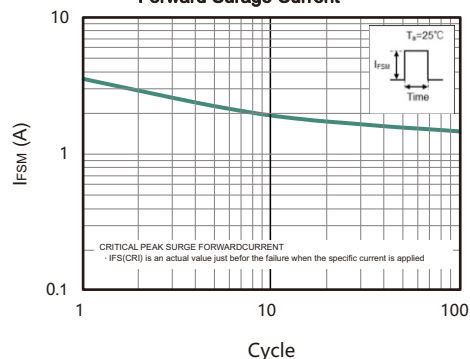


Fig.5 I_{FSM-Cycle} Characteristics

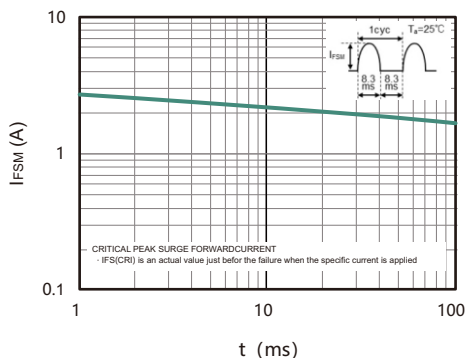


Fig.6 R_{th-t} Characteristics

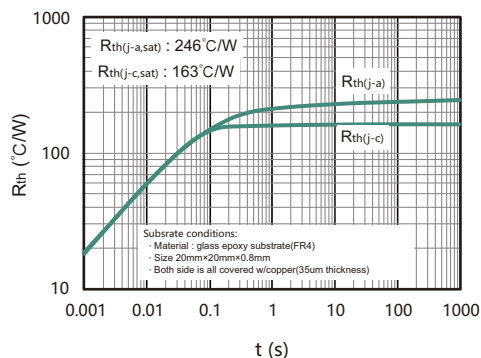


Fig.7 I_o-T_a Ambient Derating Curve

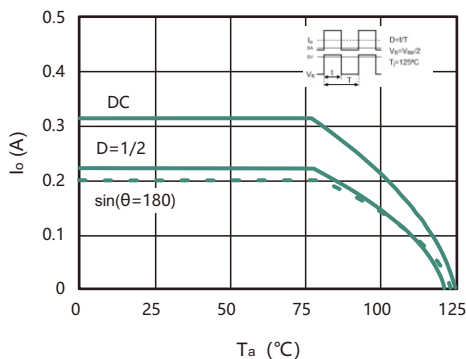
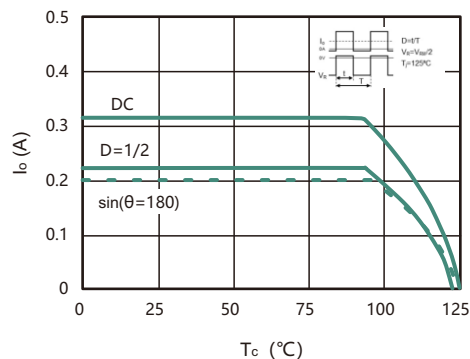


Fig.8 I_o-T_c Case Derating Curve

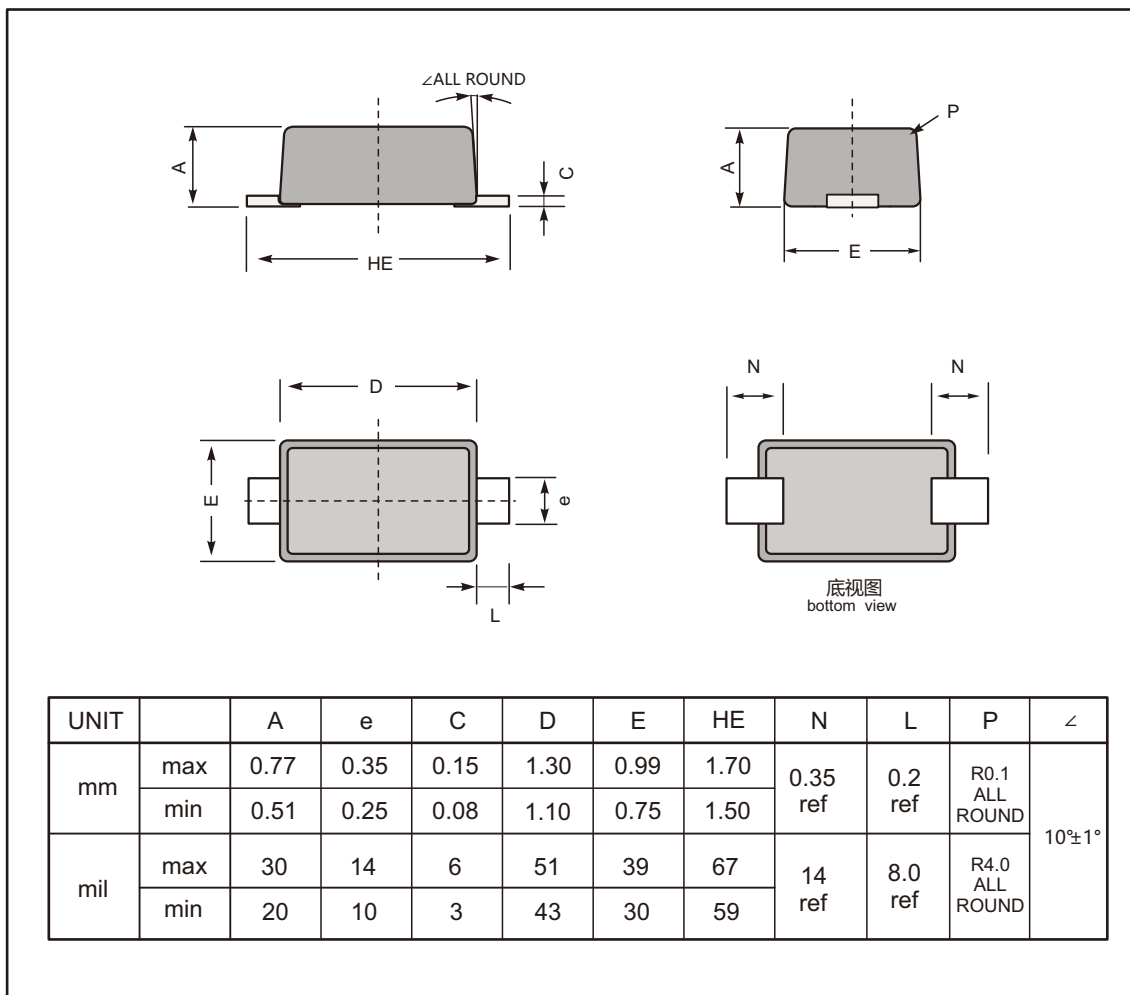




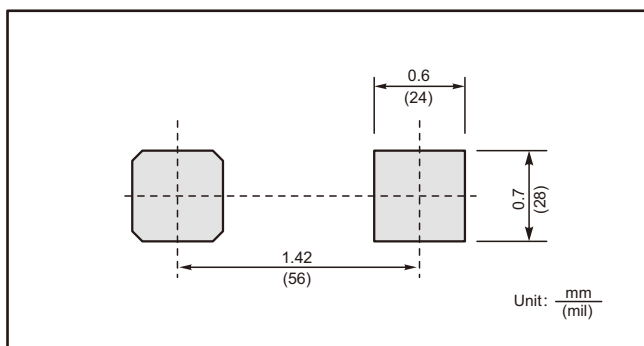
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



The recommended mounting pad size



Marking

Type number	Marking code
RB521S-30WT	C



Important Notice and Disclaimer

Jingdao Microelectronics reserves the right to make changes to this document and its products and specifications at any time without notice.

Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Jingdao Microelectronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does Jingdao Microelectronics assume any liability for application assistance or customer product design.

Jingdao Microelectronics does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Jingdao Microelectronics.

Jingdao Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of Jingdao Microelectronics.