



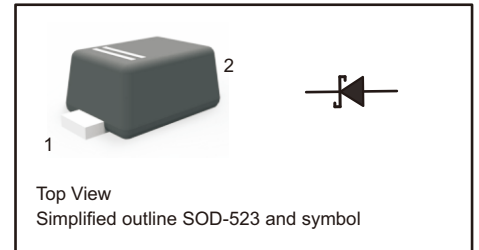
SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Low Forward Voltage Drop
- Surface Mount Package Ideally Suited for Automated Insertion
- Lead, Halogen and Antimony Free, RoHS Compliant "Green" Device

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	200	mA
Non-Reptitive Peak Forward Surge Current at t=8.3ms	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Operating Temperature Range	T_J	-55 to 125	°C
Storage Temperature Range	T_{stg}	-55 to 125	°C

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	$I_R=500\mu A$	30			V
Forward Voltage	V_F	$I_F=200mA$			0.6	V
Reverse Leakage Current	I_R	$V_R=10V$			1	μA



Typical Performance Characteristics

Fig.1 Power Derating Curve

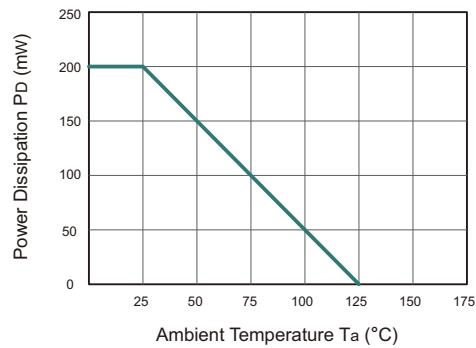


Fig.2 Typical Instantaneous Reverse Characteristics

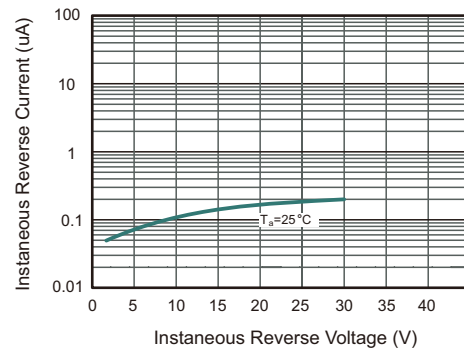
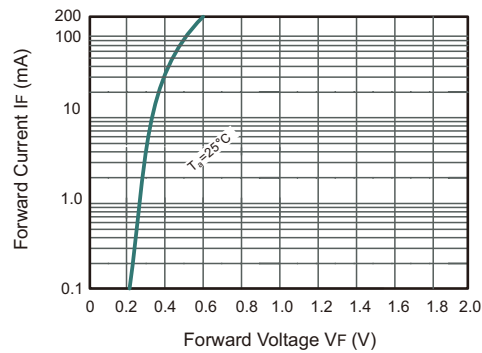


Fig.3 Typical Forward Characteristic

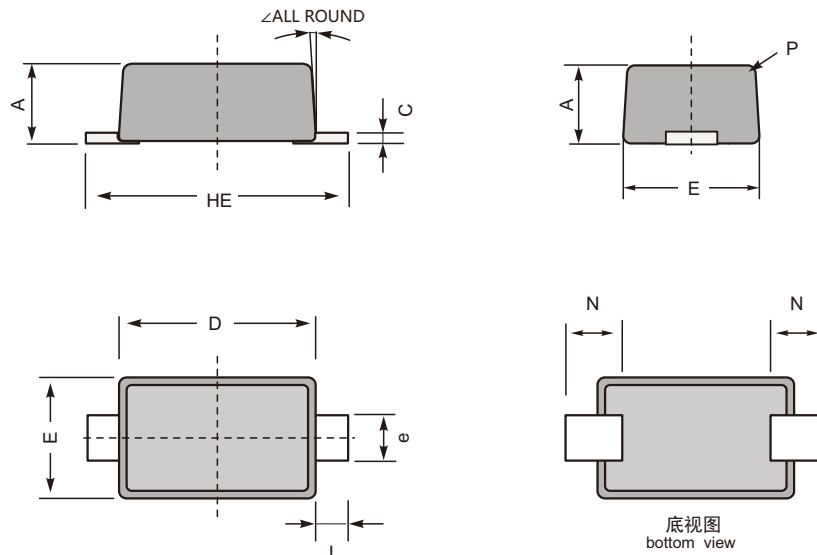




PACKAGE OUTLINE

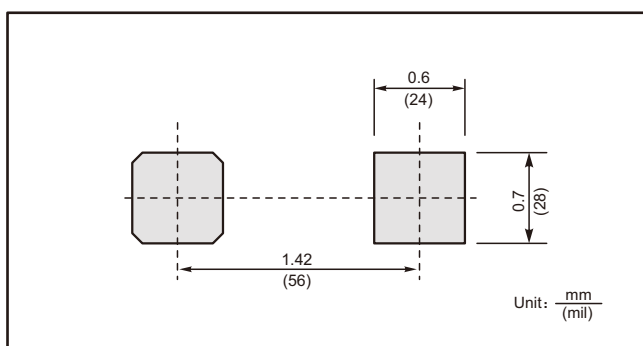
Plastic surface mounted package; 2 leads

SOD-523



UNIT		A	e	C	D	E	HE	N	L	P	∠
mm	max	0.77	0.35	0.15	1.30	0.99	1.70	0.35	0.2	R0.1	10° ±1°
	min	0.51	0.25	0.08	1.10	0.75	1.50	ref	ref	ALL ROUND	
mil	max	30	14	6	51	39	67	14	8.0	R4.0	
	min	20	10	3	43	30	59	ref	ref	ALL ROUND	

The recommended mounting pad size



Marking

Type number	Marking code
RB520S-30WT	B



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, nor 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.