WKABS1xx

SCHOTTKY BRIDGE BRIDGE

Features

- Schottky barrier rectifier
- Low forward voltage
- High current capability
- RoHS Compliant
- MSL: Level 1

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)



ABS Package

Mechanical Data

- Case：ABS Package，molded plastic body

Absolute Maximum Ratings and Electronics characteristics

Ratings@25℃ ambient temperature unless otherwise specified

Parameter		Symbol	WKABS12	WKABS14	WKABS15	WKABS16	WKABS18	WKABS110	WKABS115	WKABS120	WKABS125	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	20	40	50	60	80	100	150	200	250	V
Maximum RMS voltage		V_{RMS}	14	28	35	42	56	70	105	140	175	V
Maximum DC blocking voltage		V_{DC}	20	40	50	60	80	100	150	200	250	V
Maximum Average Forward Rectified Current at TL see figure 1 TL =100℃		IF(AV)	1.0									A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		IFSM	30									A
Typical instantaneous forward voltage at I_F=1.0A,TJ=25℃		VF	0.5		0.7		0.85		0.9		0.92	V
Maximum DC reverse current at rated DC blocking voltage	Ta= 25℃	IR	0.1					0.05				mA
	Ta= 100℃		10					5				mA
I^2t Rating for fusing (t<8.3ms)		I^2t	3.7									A^2S
Typical Thermal Resistance		$R_{\theta JA}$	95									℃/W
Operating and Storage temperature range		T_J,Tstg	-55 ~ +150									℃

Typical characteristics (Ta=25°C, unless otherwise noted)

Fig. 1 Output Current Derating Curve

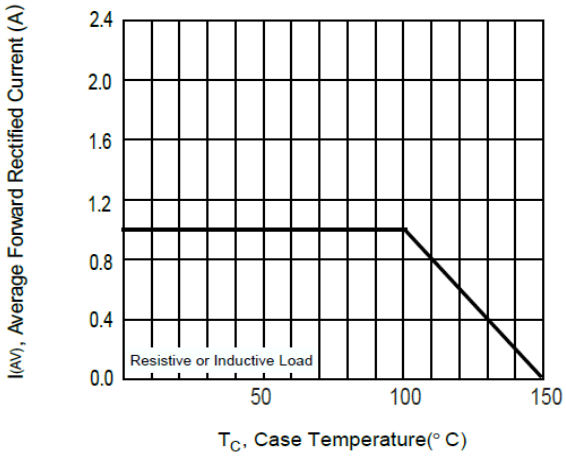


Fig. 2 Typical Forward Characteristics

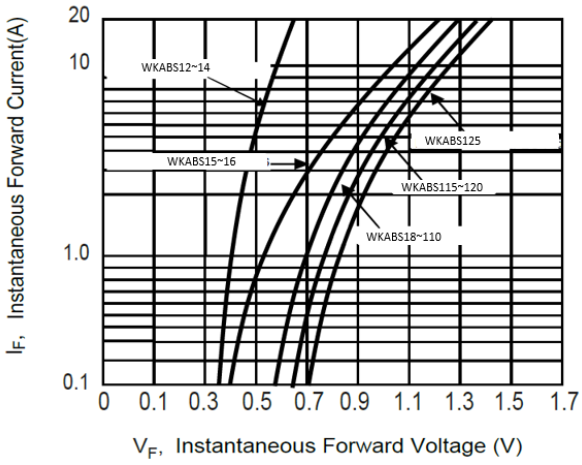


Fig.3 Maximum Peak Forward Surge Current

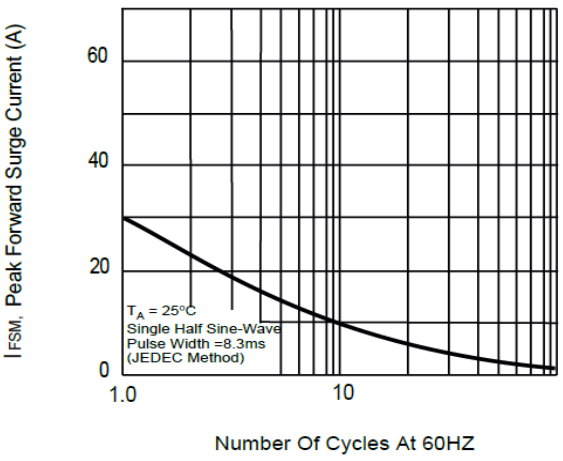
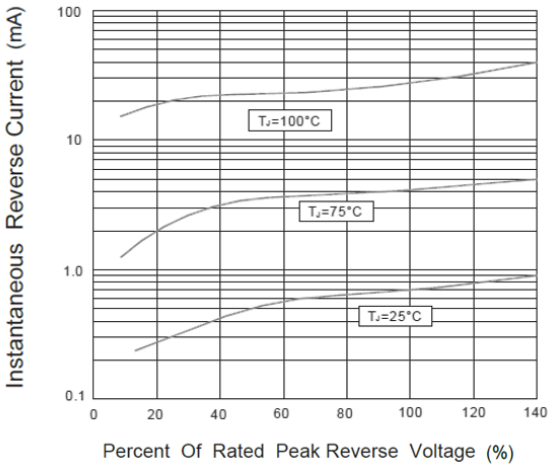
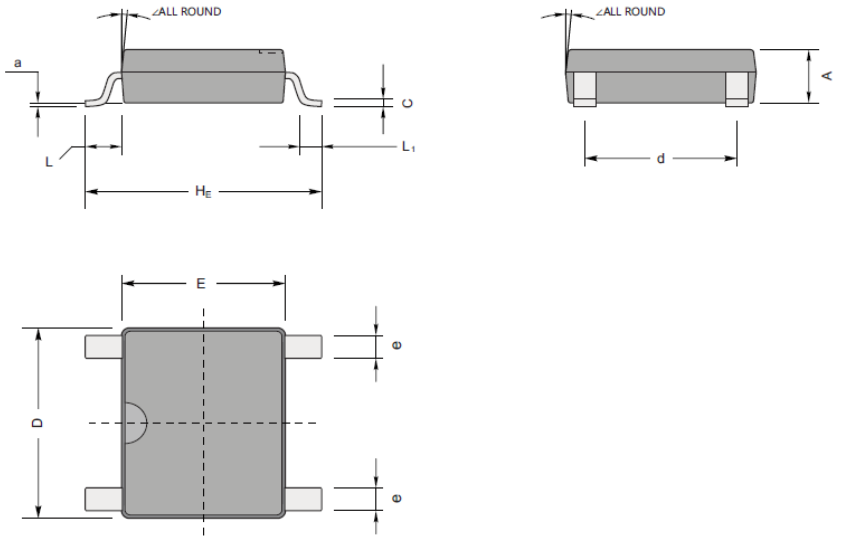


Fig.4 Typical Reverse Chracteristics



Note: The above typical parameters or typical characteristics are only indicative and do not make specific guarantees. If detailed values are required, additional communication and provision are required.

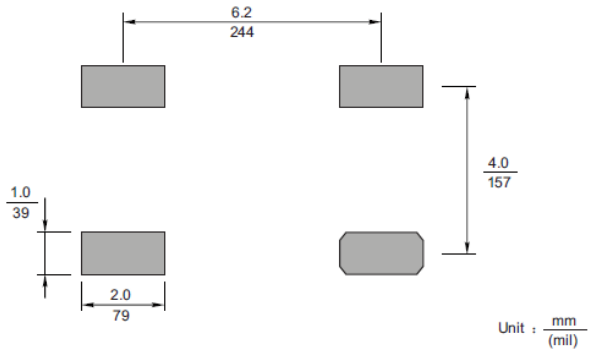
Outline Drawing



ABS mechanical data

UNIT		A	C	D	E	H_E	d	e	L	L_1	a	∠
mm	max	1.5	0.25	5.3	4.6	6.8	4.2	0.7	0.95	0.6	0.2	7°
	min	1.2	0.15	4.8	4.2	6.0	3.8	0.5				
mil	max	59	9.8	209	181	268	165	28	37	24	8	
	min	47	5.9	189	165	236	150	20				

Recommended Solder Pad Layout



Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 86-21-50310888 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: **http://www.way-on.com**
For additional information, please contact your local Sales Representative.

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The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

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