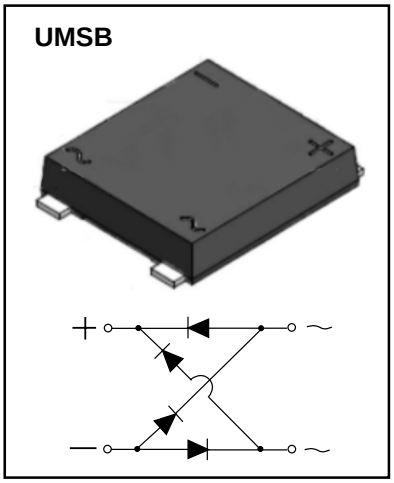
MSB30B THRU MSB30M

UMSB Plastic-Encapsulate Bridge Rectifier

Features

- I_O 3A
- VRRM 50V-1000V
- High surge current capability
- Glass passivated chip
- Polarity: Color band denotes cathode



Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- MB30X

  X：From B To M

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	MSB30					
				B	D	G	J	K	M
Repetitive Peak Reverse Voltage	V_{RRM}	V		100	200	400	600	800	1000
Average Rectified Output Current	I_O	A	60Hz sine wave, R-load, Tc=110℃	3					
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_j=25℃	95					
Current Squared Time	I^2t	A^2S	1ms≤t<8.3ms Tj=25℃，Rating of per diode	37.45					
Storage Temperature	T_{stg}	℃		-55 ~+150					
Junction Temperature	T_j	℃		-55 ~+150					

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Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition		Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=1.5A, Pulse measurement, Rating of per diode		1.1
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	Tj=25℃	5
				Tj=125℃	100
Thermal Resistance	$R_{\theta J-A}$	℃/W	Between junction and ambient		55
	$R_{\theta J-L}$		Between junction and lead		15
	$R_{\theta J-C}$		Between junction and case		10

Typical Characteristics

FIG1:Io-Tc Curve

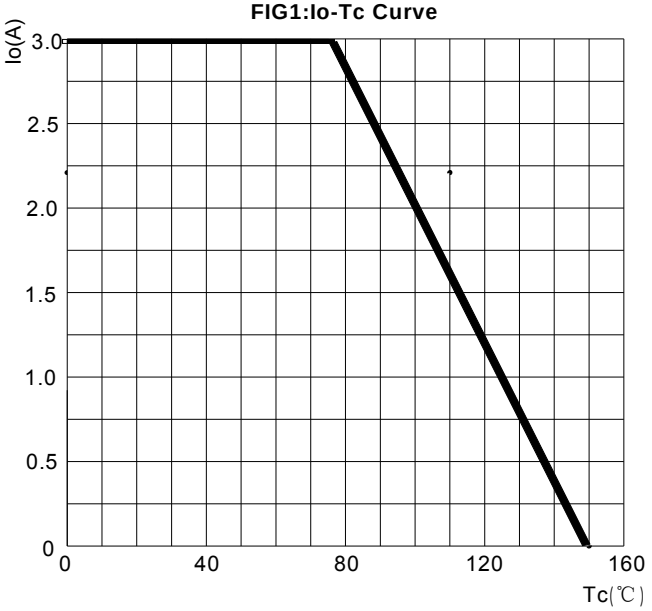
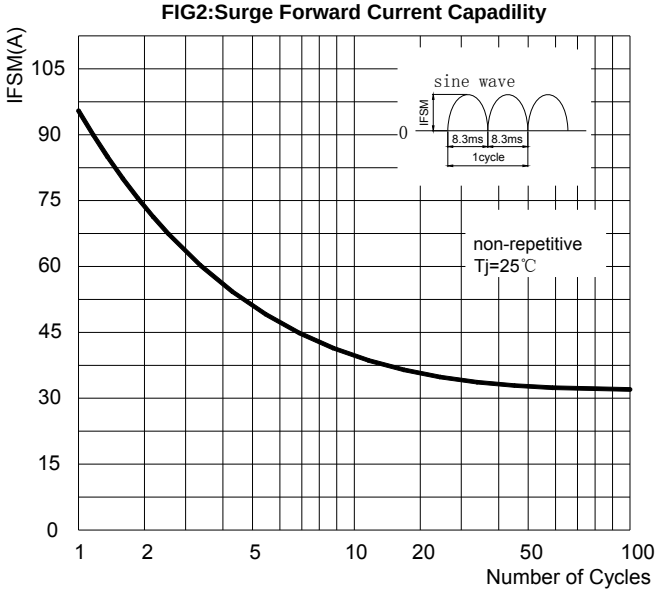


FIG2:Surge Forward Current Capadility



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FIG3: Forward Voltage

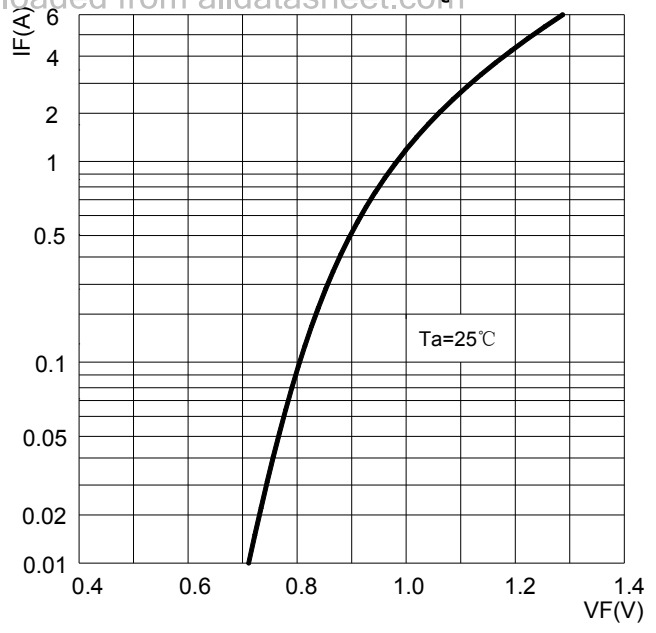
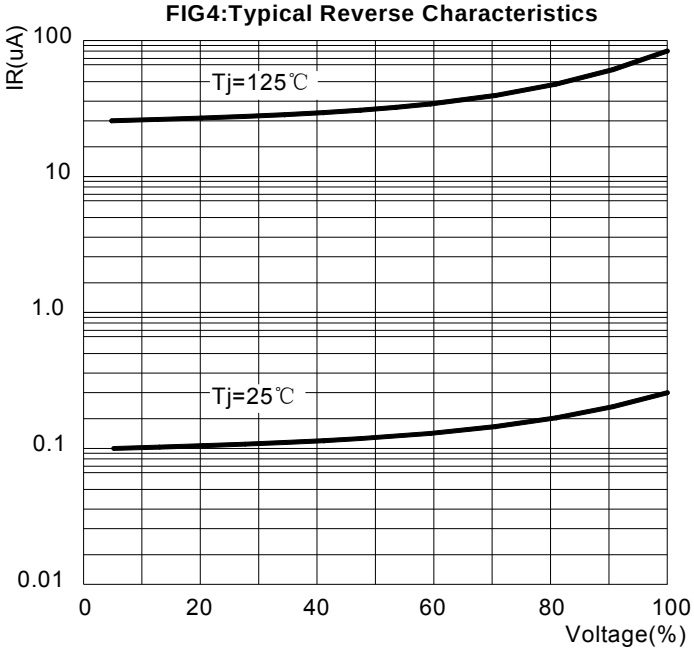
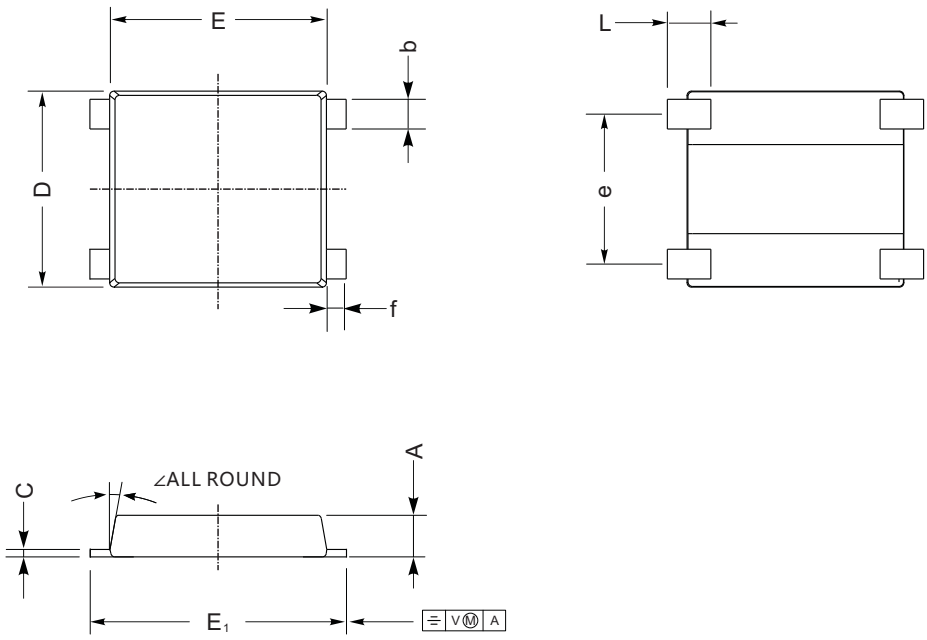


FIG4:Typical Reverse Characteristics



UMSB Package Outline Dimensions

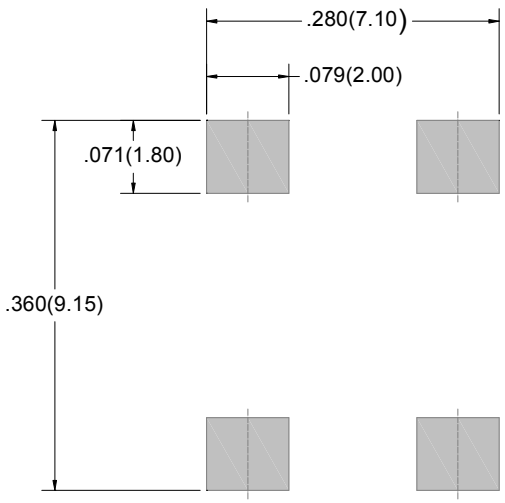


UMSB mechanical data

UNIT		A	C	D	E	E_1	L	e	b	f	∠
mm	max	1.5	0.29	7.0	7.6	8.9	1.6	5.3	1.15	0.8	10°
	min	1.3	0.17	6.2	7.1	8.4	1.0	4.9	0.95	0.6	
mil	max	59	12	276	299	350	55	209	45	31.5	
	min	51	7	244	280	331	39	193	37	24	

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UMSB Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

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