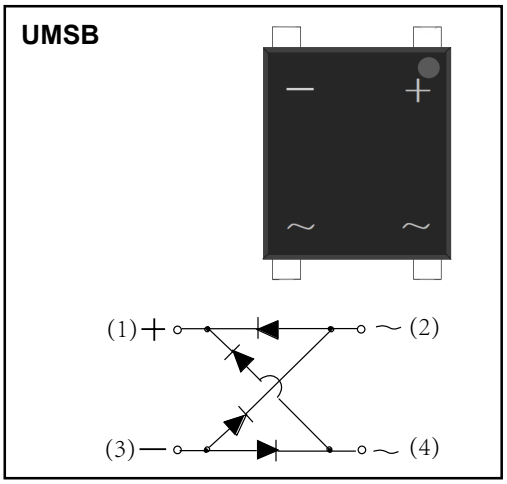
RMSB30A-RMSB30M

RoHS COMPLIANT

UMSB Plastic-Encapsulate Bridge Rectifier

Fast Recovery Rectifier



Features

- I_O 3A
- VRRM 50V-1000V
- Low forward voltage drop
- High surge current capability
- Glass passivated chip junction

Mechical Data

- Case: UMSB molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Solder plated, solderable per MIL- STD-202, Method 208
- Polarity: Color band denotes cathode end

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	RMSB30						
				A	B	D	G	J	K	M
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V		50	100	200	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, T_a =60℃	3.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , Ta =25℃	90						
Junction Temperature	T_J	℃		-55~+150						
Storage Temperature	T_{STG}	℃		-55 ~ +150						

Electrical Characteristics (Ta=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		RMSB30						
					A	B	D	G	J	K	M
Forward voltage	V_F	V	I_F=3.0A		1.3						
Maximum reverse recovery time	Trr	ns	I_F=0.5A,I_R=1.0A,I_{rr}=0.25A		150				250	500	
Peak Reverse Current	I_{RRM1}	μA	V_{RM}=V_{RRM}	T_a =25℃	5						
	I_{RRM2}			T_a =125℃	500						
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		55						
	$R_{\theta J-L}$		Between junction and terminal		15						
	$R_{\theta J-C}$		Between junction and case		10						

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

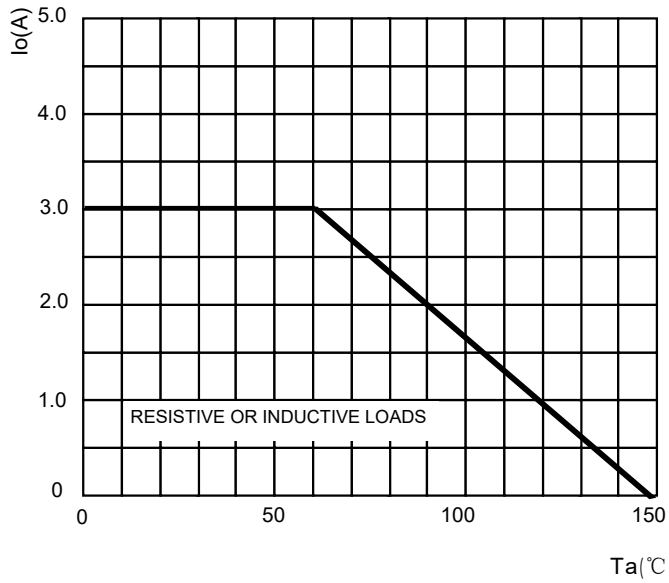


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

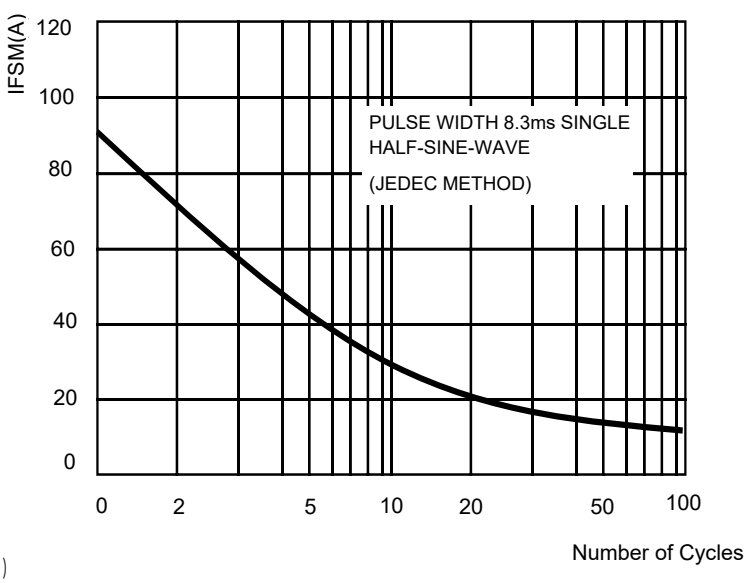


FIG.3: TYPICAL FORWARD CHARACTERISTICS

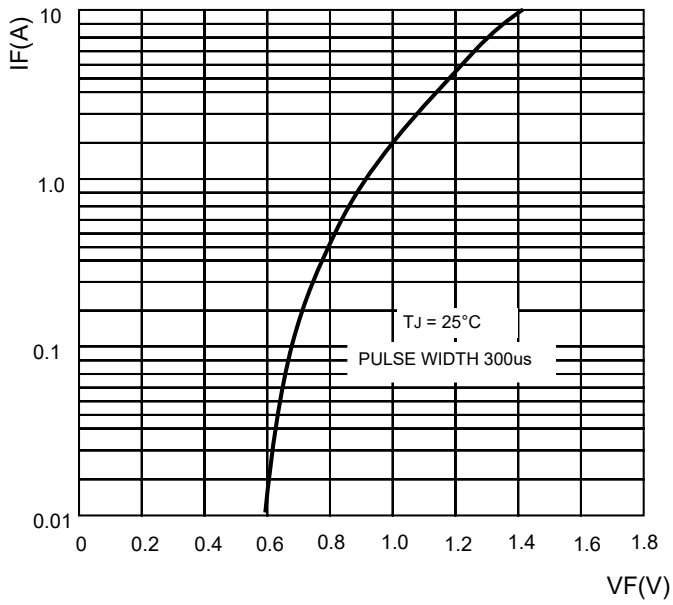
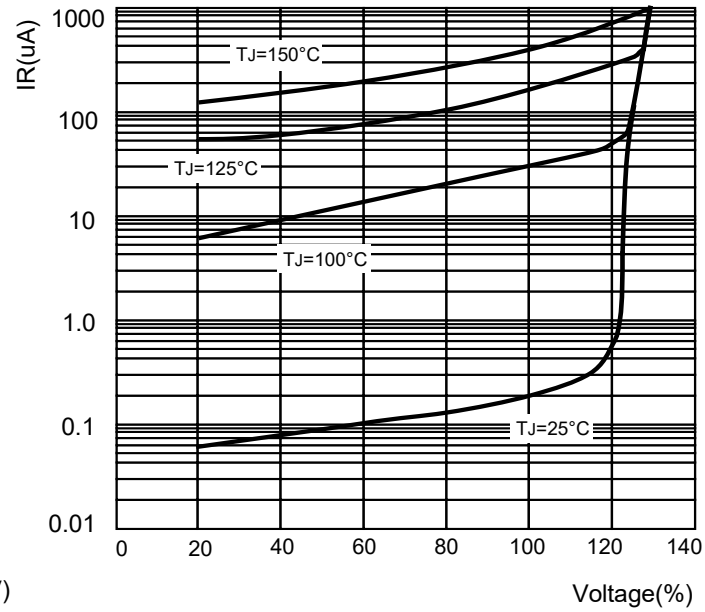
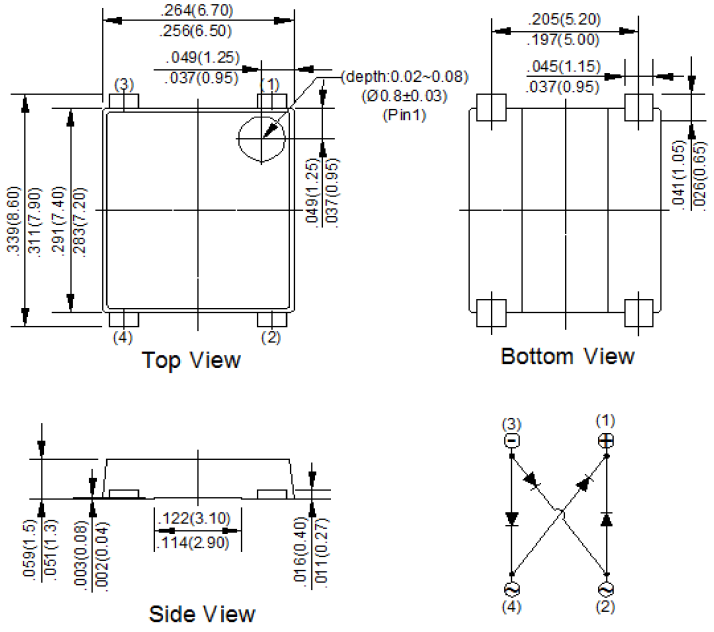


FIG.4:TYPICAL REVERSE CHARACTERISTICS

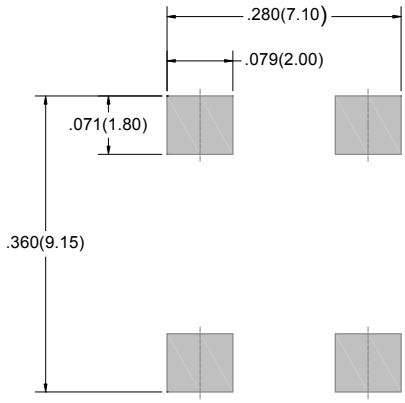


UMSB Package Outline Dimensions



Dimensions in inches and (millimeters)

UMSB Suggested Pad Layout

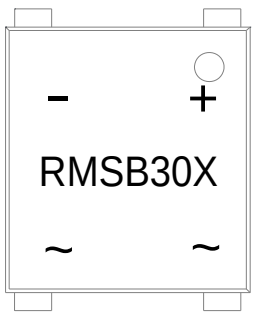


Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

Ordering Information

Part Number	Package	Shipping Quantity
RMSB30A-RMSB30M	UMSB	3000/tape&Reel

Marking Diagram



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