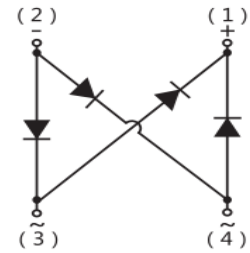


Feature

- Reverse Voltage -100 to 1000V
- Glass Passivated Chip Junction
- Forward Current -2.0A
- High Surge Current Capability
- Designed for Surface Mount Application



Mechanical Characteristics

- Case: UMSB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.234g 0.00825oz

Absolute maximum rating@25°C

Parameter	Symbol	PMSB20B	PMSB20D	PMSB20G	PMSB20J	PMSB20K	PMSB20M	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current	I_O	2.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50						A
Maximum Forward Voltage at 2.0A	V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_a = 25\text{ }^\circ\text{C}$ @ $T_a = 125\text{ }^\circ\text{C}$	I_R	5 100						μA
Typical Junction Capacitance ⁽¹⁾	C_J	30						pF
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	60 10 25						$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150						$^\circ\text{C}$

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4 V.D.C.

2. Mounted on glass epoxy PC board with 4X1.5"X1.5" (3.81X3.81CM) copper pad.

Typical Characteristics

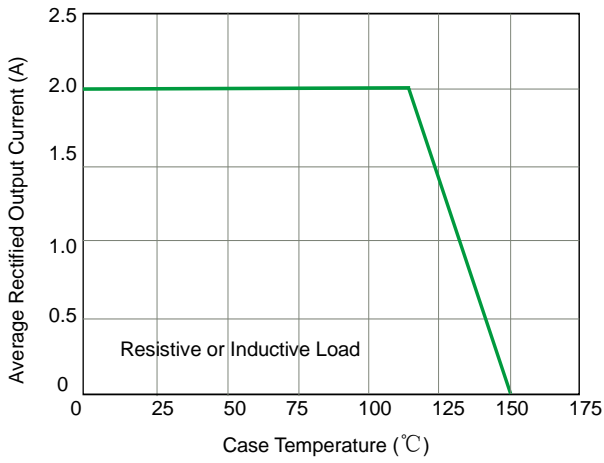


Fig 1. Average Rectified Output Current Derating Curve

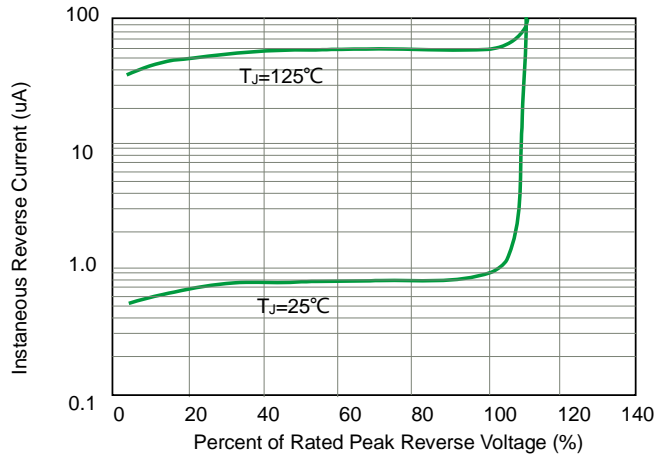


Fig 2. Typical Reverse Characteristics

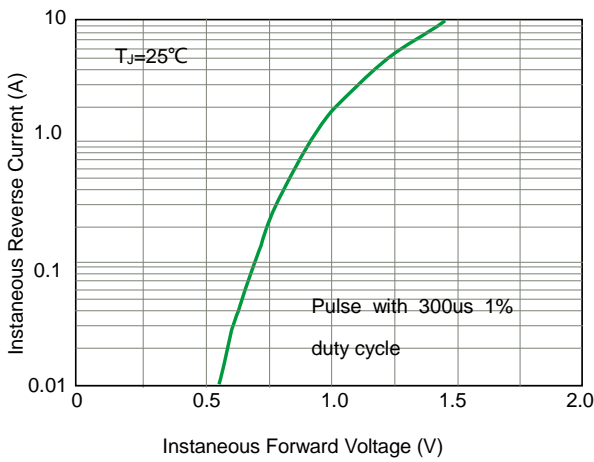


Fig 3. Typical Instantaneous Forward Characteristics

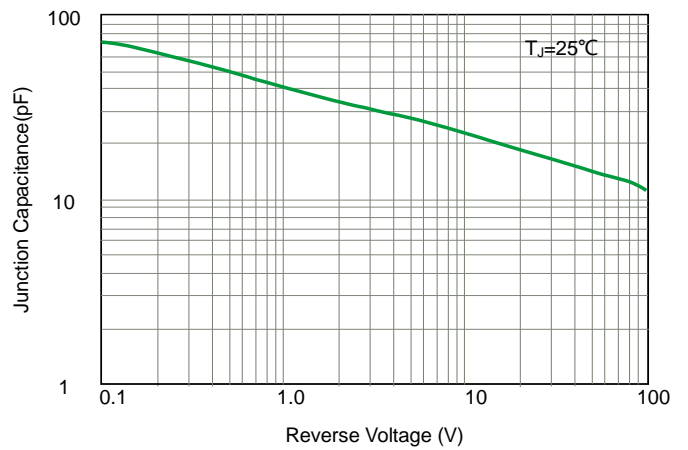


Fig 4. Typical Junction Capacitance

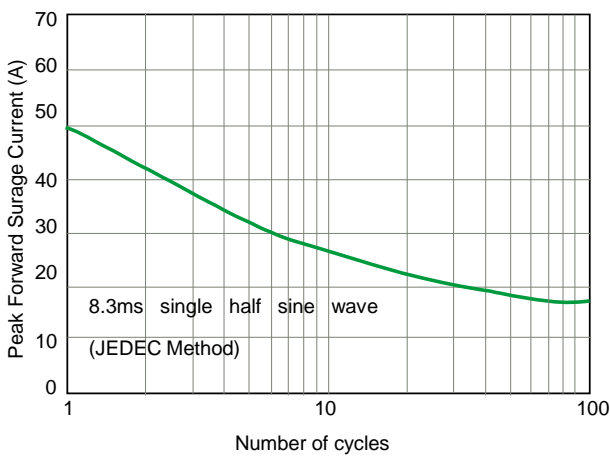


Fig 5. Maximum Non-Repetitive Peak Forward Surge Current

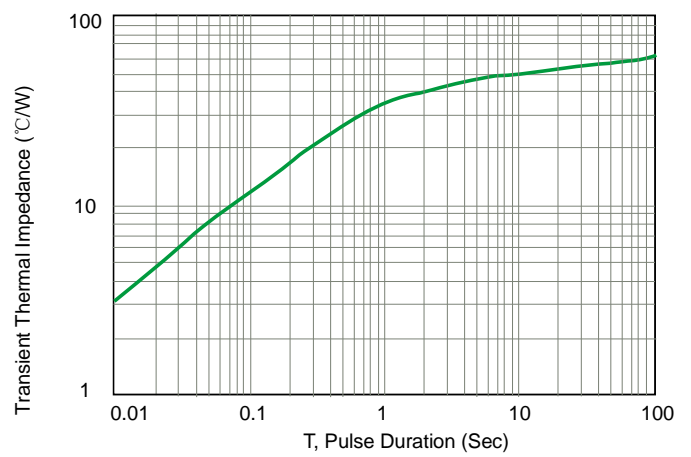
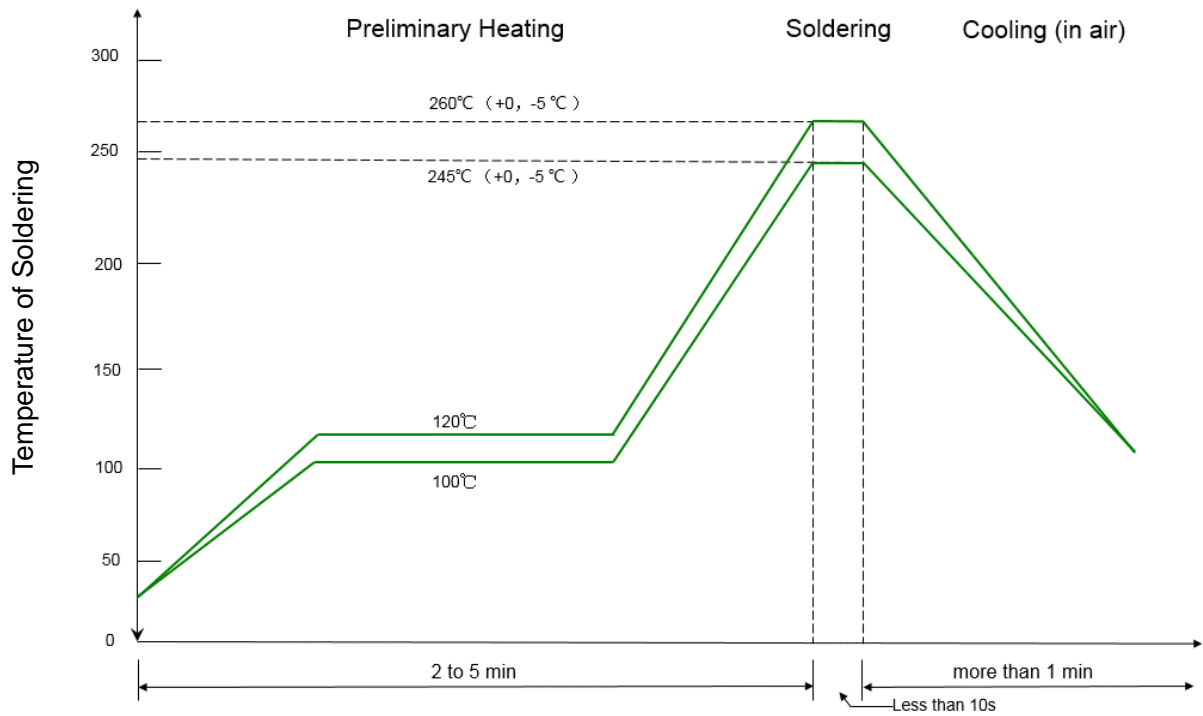


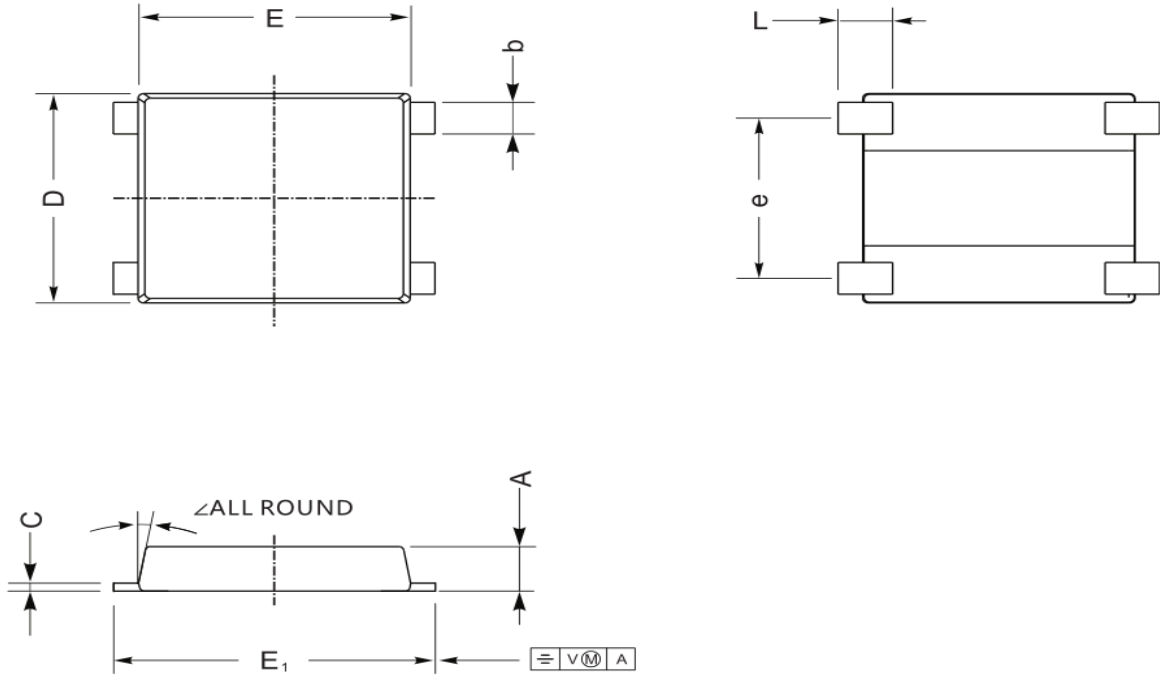
Fig 6. Typical Transient Thermal Impedance

Solder Reflow Recommendation



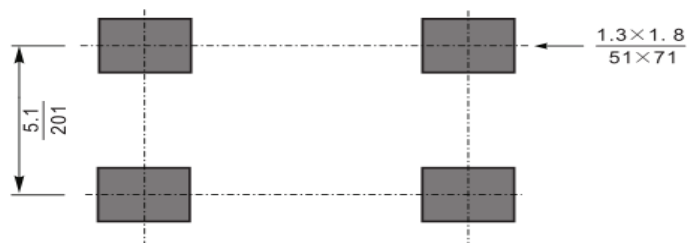
Remark: Pb free for 260°C; Pb for 245°C.

Product dimension (UMSB)



UMSB mechanical data

UNIT		A	C	D	E	E ₁	L	e	b	∠
mm	max	1.5	0.29	7.0	7.6	8.9	1.6	5.3	1.15	10°
	min	1.3	0.17	6.2	7.1	8.4	1.0	4.9	0.95	
mil	max	59	12	276	299	350	55	209	45	
	min	51	7	244	280	331	31.5	193	37	




Unit: $\frac{\text{mm}}{\text{mil}}$

Ordering information

Device	Package	Reel	MPQ
PMSB20B~PMSB20M	UMSB	13"	3000


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