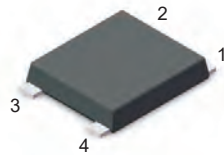


Bridge Rectifier



MSB Package

PINNING

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

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 6A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

- Case: MSB
- Terminals: Solderable Per MIL-STD-750

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MSB60M	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	I _o	6	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	93.3	A ² S
Maximum Forward Voltage at 1A	V _F	0.95	V
Maximum Forward Voltage at 3A		1.1	
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	5 100	μA
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C
Typical thermal resistance (Note 1)	R _{thJC}	6	°C/W

Note: 1.Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Average Rectified Output Current Derating Curve

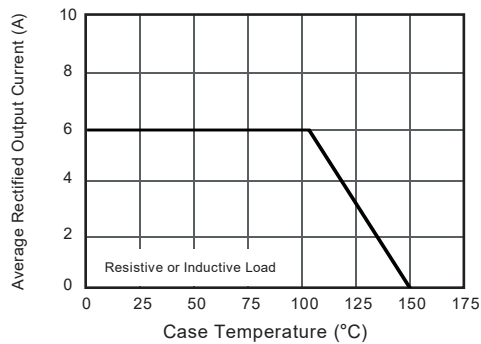


Fig.2 Typical Junction Capacitance

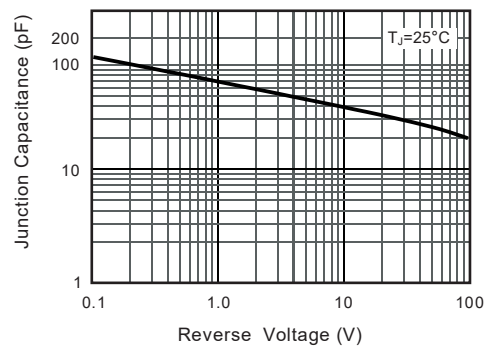


Fig.3 Typical Instantaneous Forward Characteristics

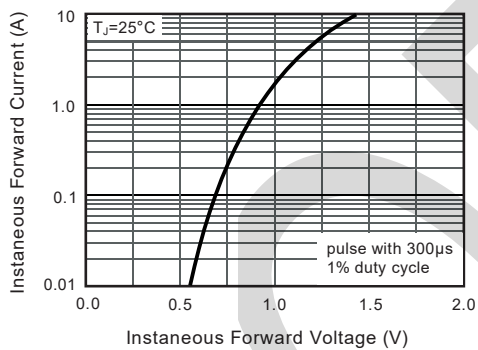


Fig.4 Typical Transient Thermal Impedance

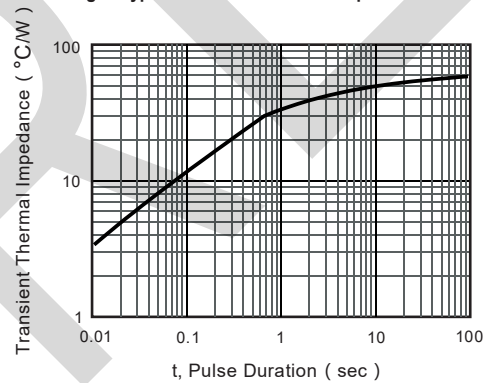
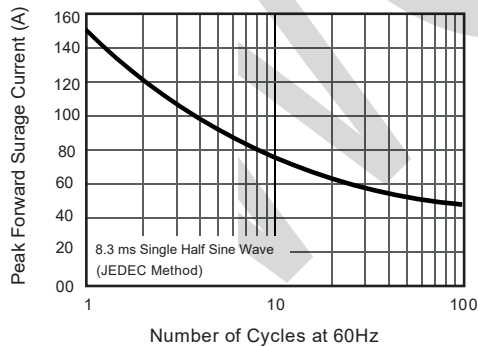
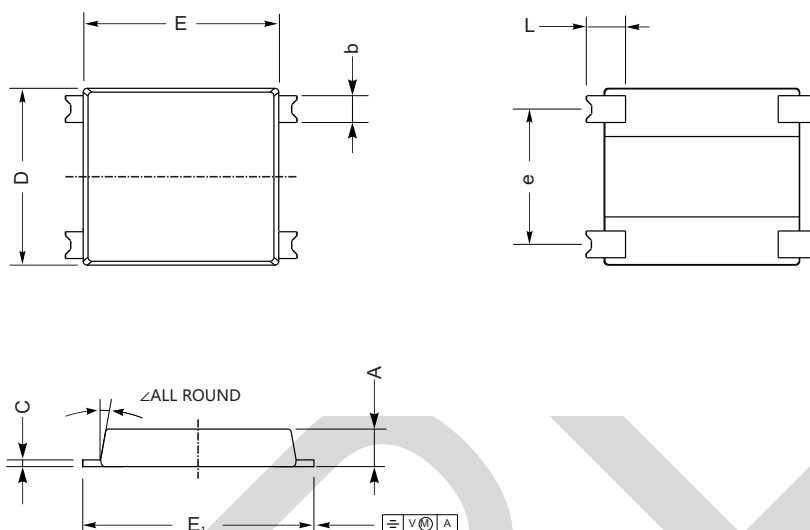


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE DIMENSIONS

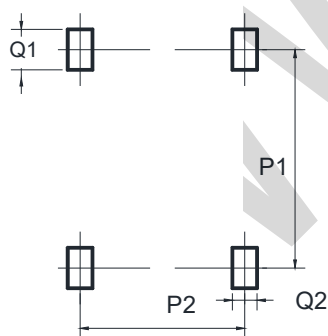
MSB



MSB mechanical data

UNIT		A	C	D	E	E1	L	e	b	∠
mm	max	1.5	0.29	7.0	7.6	8.9	1.6	5.3	1.15	7°
	min	1.3	0.17	6.2	7.1	8.4	1.0	4.9	0.95	
mil	max	59	12	276	299	350	63	209	45	
	min	51	7	244	280	331	39.3	193	37	

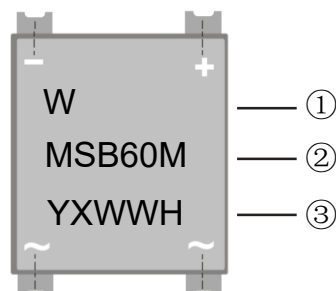
MSB Suggested Pad Layout



Dimensions is millimeters

UNIT		P1	P2	Q1	Q2
mm	min	8.30	5.10	1.6	1.2
mil	min	326.77	200.79	63.0	47.25

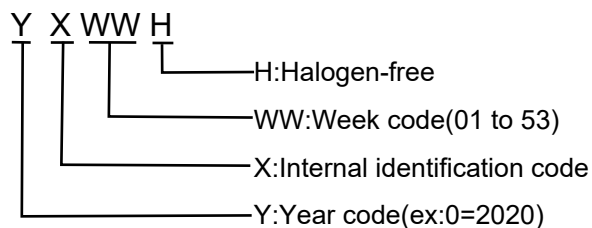
Marking Information



①W : Company's trademark

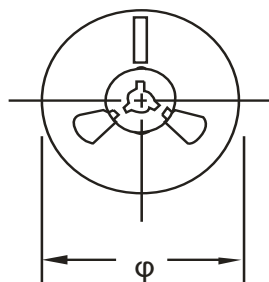
②Product model : MSB60M

③PDC information :

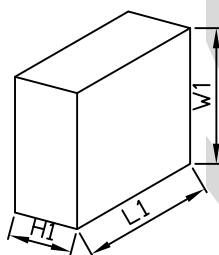


Packaging Information

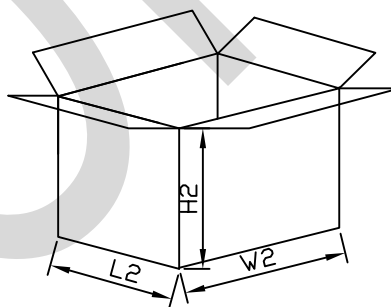
1.Reel Dimensions



2. Inside Box



3. Outside Box



Packaging Information

NO	UNIT	Reel Dimensions			Inside Box			Outside Box		
Size	mm	φ	A	B	L1	W1	H1	L2	W2	H2
		330	100	15	340	340	46	360	360	270
QTY	PCS	Smallest package,3000PCS/reel			6,000PCS,2 reel in total			30,000PCS/carton,5boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									