



### Features

- Surface Mount Package
- Glass Passivated Diode Construction
- Moisture Resistant Epoxy Case
- High surge forward current capability

### Maximum Ratings

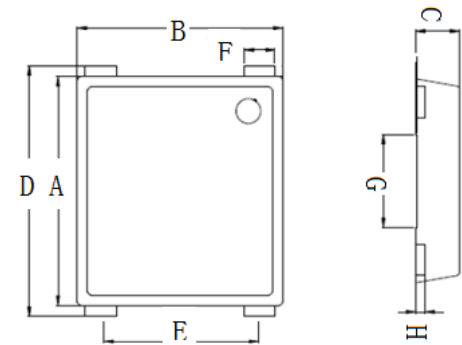
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

XM Catalog Number	Device Marking	Maximum Rccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MSB410	MSB410	1000V	700V	1000V

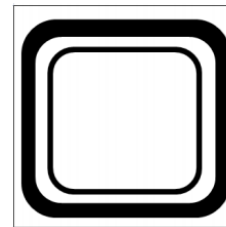
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4A	
Peak Forward Surge Current	$I_{FSM}$	90A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_F = 4.0 A;$ $T_A = 25 \text{ }^\circ C$
Maximum DC reverse current at Rated DC Blocking Voltage	$I_R$	5 $\mu A$ 100 $\mu A$	$T_A = 25 \text{ }^\circ C$ $T_A = 125 \text{ }^\circ C$

### MSB



DIM	INC HES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.276	0.291	7.000	7.400	
B	0.256	0.272	6.500	6.900	
C	0.047	0.063	1.200	1.600	
D	0.319	0.335	8.100	8.500	
E	0.193	0.209	4.900	5.300	
F	0.035	0.049	0.900	1.250	
G	0.110	0.126	2.800	3.200	
H	0.008	0.016	0.200	0.400	



CHIP DIMENSION Square SIZE DESIGN 84±2MIL



FIG.1-MAXIMUM FORWARD SURNGE CURRENT

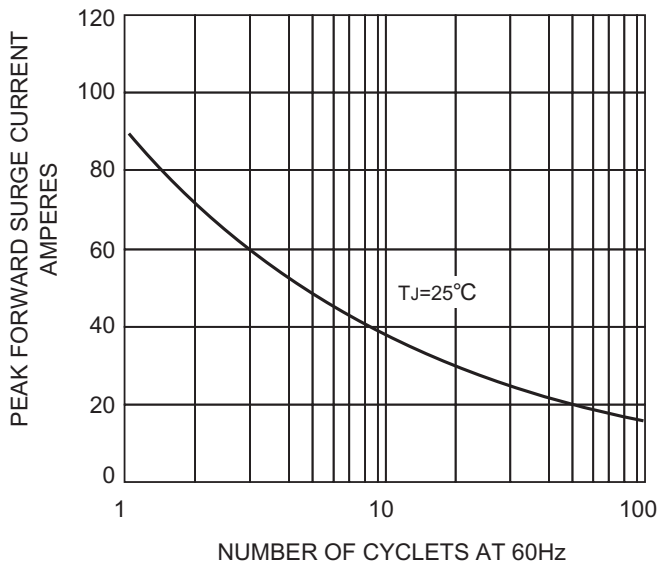


FIG.2-FORWARD CURRENT DERATING CURVE

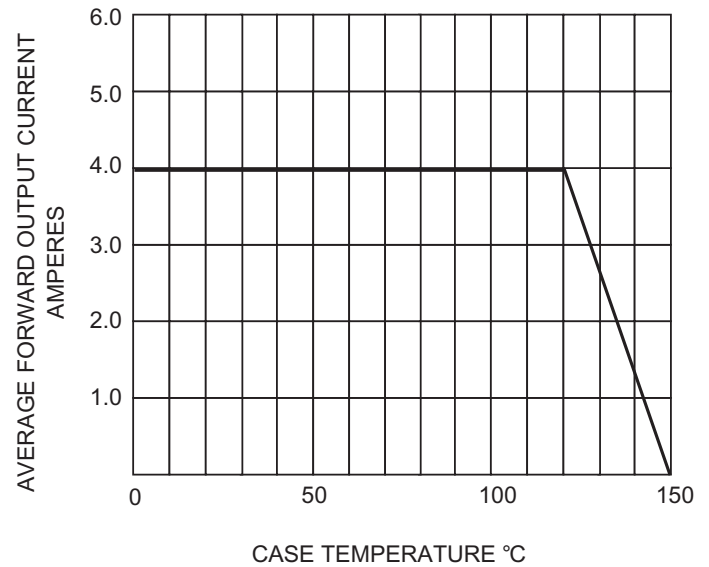


FIG.3-TYPICAL FORWARD CHARACTERISTICS

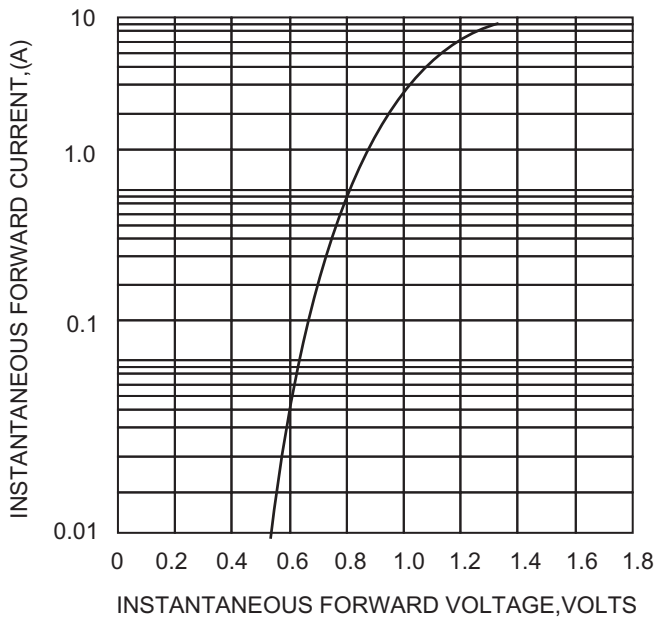
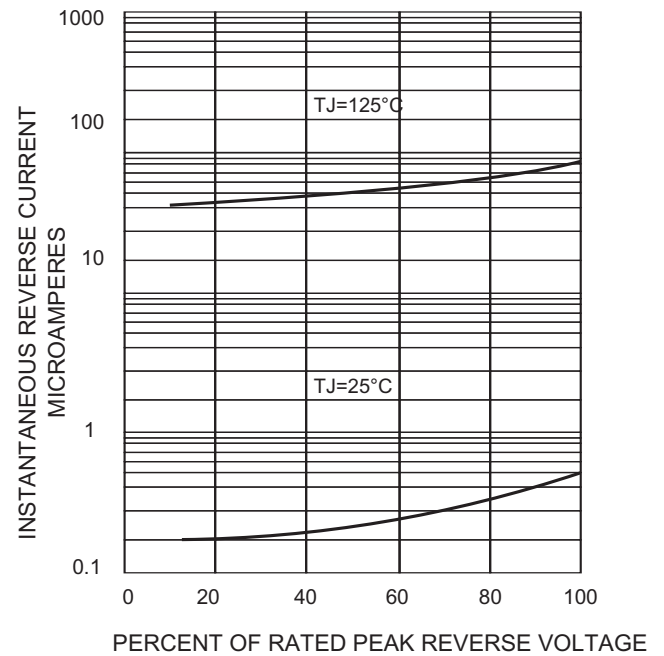
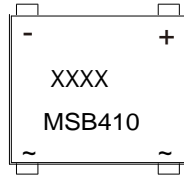


FIG.4 -TYPICAL REVERSE CHARACTERISTICS





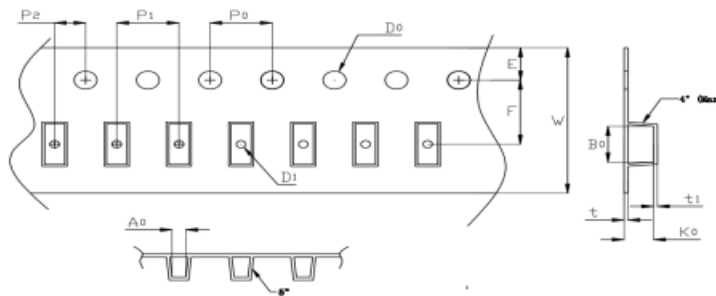
MARKING INFORMATION



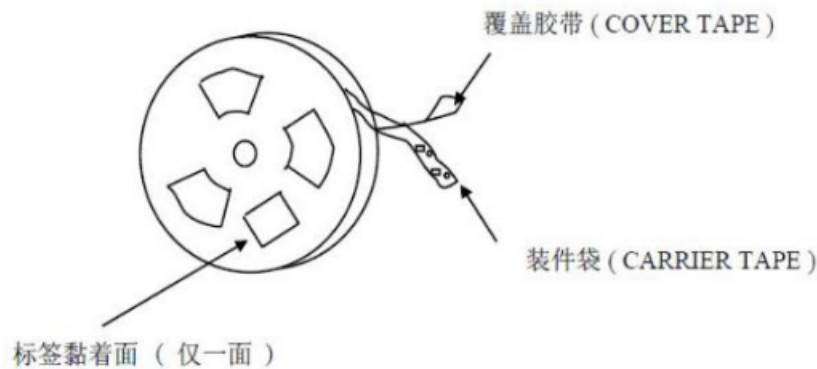
XXXX = Date Code Marking  
MSB410 = Marking Code

PACKING REQUIRMENTS

- PS black anti-static carrier tape packing.



Specifications	Carrier tape type	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P <sub>0</sub>	W	t <sub>1</sub>	Explain
MSB	Anti-static	7.0±0.10	8.7±0.10	1.65±0.10	4.00±0.10	16.0±0.30	0.28±0.05	



DEVICE TYPE	Tape width	13" Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
MSB	16mm	3000	6000	60000