

■ Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

■ Applications

- General purpose use in AC/DC bridge full wave rectification

■ Mechanical Data

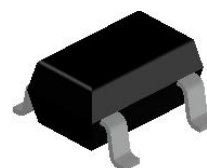
- Case: IBS
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



Reverse Voltage
50-1000 V

Forward Current
0.6A max

Appearance Image



■ Marking

- IBxxS(05~10)

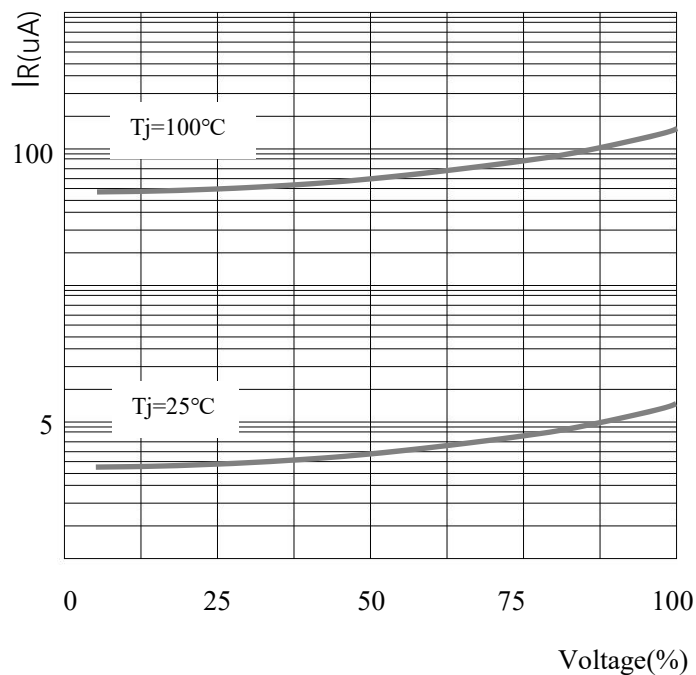
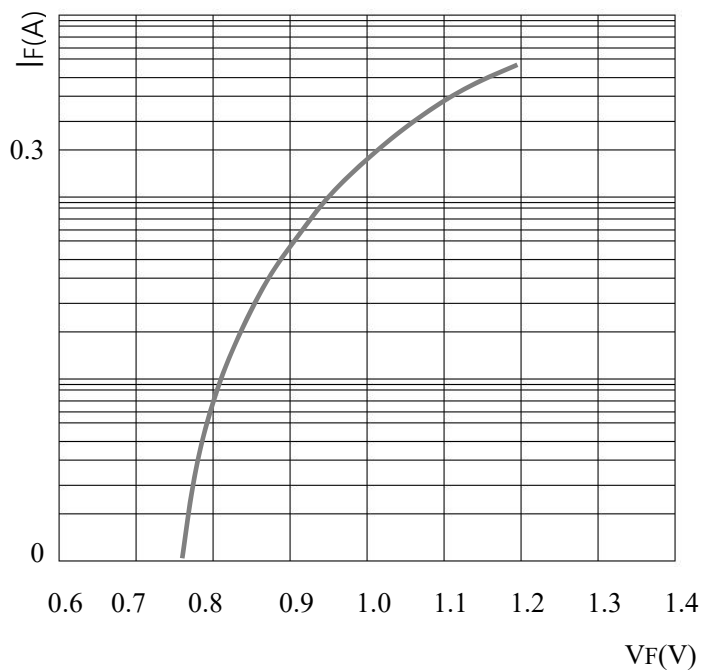
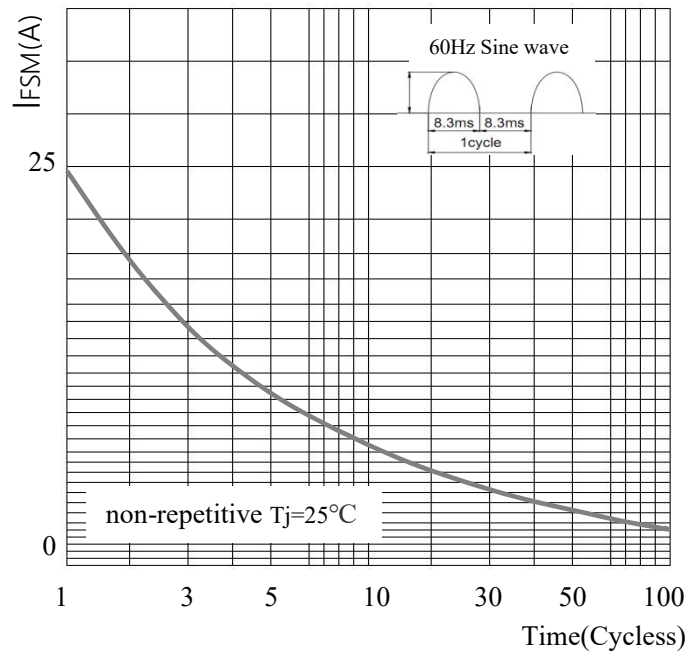
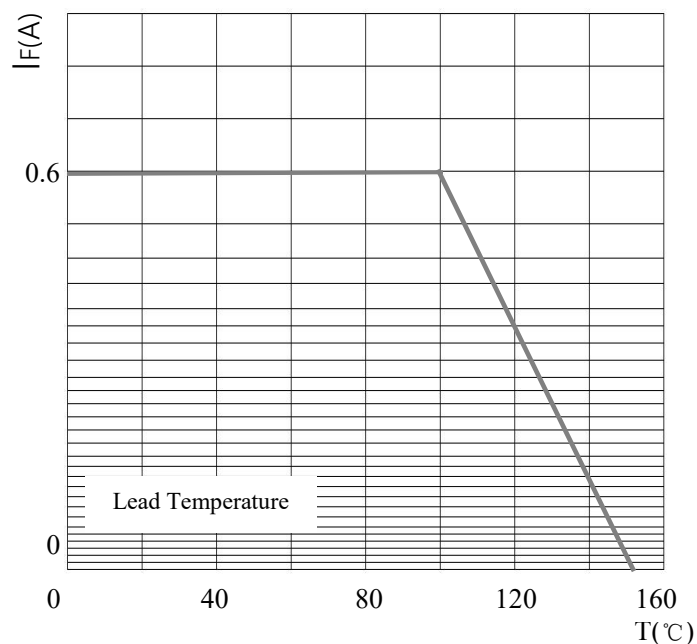
■ Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	VMB05S IB05S	VMB1S IB1S	VMB2S IB2S	VMB4S IB4S	VMB6S IB6S	VMB8S IB8S	VMB10S IB10S
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
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	0.6						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	25						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	50						
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I^2t	A²S	2.59						
Storage temperature	T_{stg}	°C	-55~+150						
Junction temperature	T_j	°C	-55~+150						

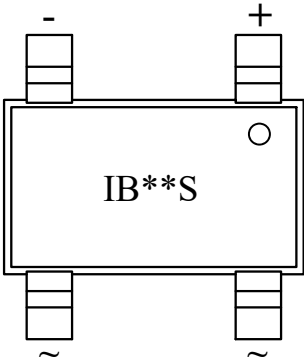
■ Electrical Characteristics @ Ta = 25°C unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	VMB05S IB05S	VMB1S IB1S	VMB2S IB2S	VMB4S IB4S	VMB6S IB6S	VMB8S IB8S	VMB10S IB10S
Maximum instantaneous forward voltage	$I_F=0.3A$	V_F	V	1.0						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}$, Tj=25°C	I_R	μA	5						
	$V_R=V_{DC}$, Tj=100°C	I_R		100						

■ Characteristic Curve (Typical)



■ **Marking and packet information**



IBS** : Product Type Code

Packaging information	
Reel	10000PCS
Carton	200000PCS
Reel size	13"

■ **IBS Package outline dimensions**

The diagram shows three views of the IBS package with the following dimensions labeled:

- Top View:** Dimensions A (width), B (height), and E (distance from the bottom edge to the mounting pads).
- Side View:** Dimensions F (width of the top flange) and H (height of the package).
- Front View:** Dimensions C (height of the package), D (width of the mounting pads), and G (height of the mounting pads).

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.2	3.5	0.126	0.138
B	3.1	3.6	0.122	0.142
C	1.4	1.8	0.055	0.071
D	2.2	2.6	0.009	0.102
E	0.4	0.6	0.016	0.024
F	1.8	2.0	0.071	0.079
G	–	0.15	–	0.061
H	0.1	0.15	0.004	0.006
L	0.3	0.4	0.012	0.016

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