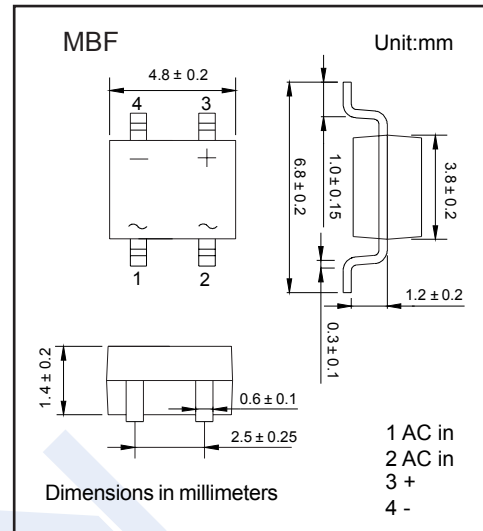


Bridge Rectifiers

MB05F ~ MB10F

■ Features

- Glass passivated chip junctions
- Plastic material has U/L flammability classification 94V-0
- High surge overload rating: 25A peak
- Saves space on printed circuit boards
- High temperature soldering guaranteed



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000		
Forward Voltage @ $I_F=0.4\text{A}$	V_F	1								A
Averaged Forward Current.	I_{FAV}	0.5								
Peak Forward Surge Current @ 8.3ms	I_{FSM}	25								
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ $T_a=100^\circ\text{C}$	I_R	5								μA
		0.5								mA
Typical Junction Capacitance (Note.1)	C_j	13								pF
Thermal Resistance.Junction- to-Ambient	R_{thJA}	85								$^\circ\text{C/W}$
Thermal Resistance.Junction- to-Case	R_{thJC}	20								
Junction Temperature	T_j	150								$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150								

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

Bridge Rectifiers

MB05F ~ MB10F

■ Typical Characteristics

AVERAGE FORWARD CURRENT, AMPERES

FIG.1 – DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

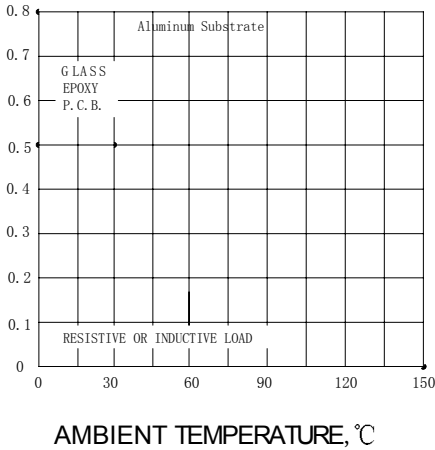
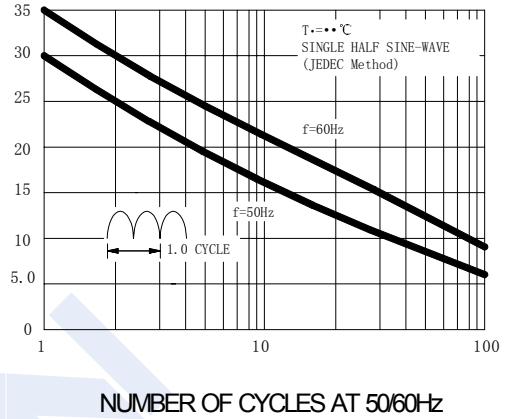


FIG.2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

PEAK FORWARD SURGE CURRENT, AMPERES



INSTANTANEOUS FORWARD CURRENT AMPERES

FIG.3 – TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

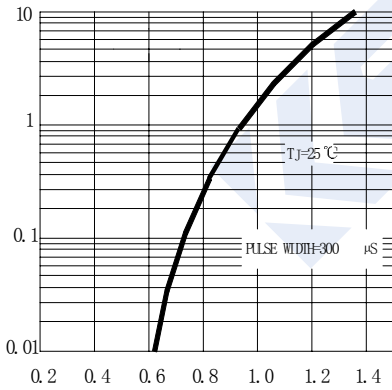
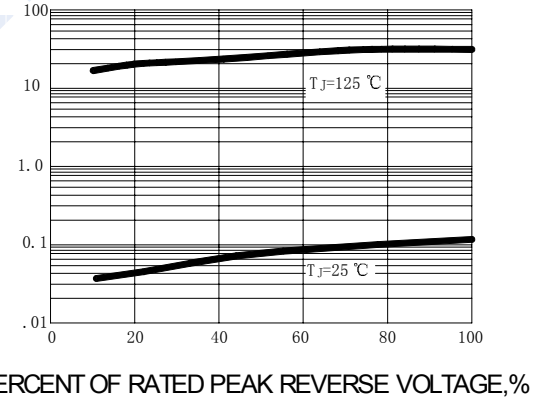


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

INSTANTANEOUS REVERSE CURRENT, MICRO AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.5 – TYPICAL JUNCTION CAPACITANCE PER ELEMENT

CAPACITANCE, pF

