6A Glass Passivated Single-Phase Bridge Rectifier

MSB

Features

Glass passivated chip

Low Reverse Leakage Current

High surge current capability

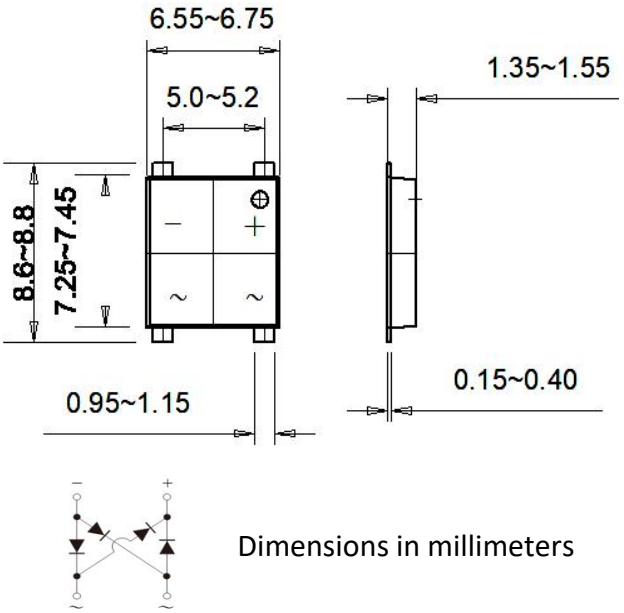
Case to Terminal Isolation Voltage 2500V

Machanical Data

Case: plastic package

Marking / Polarity: Marked on Body

Weight: About 0.24grams



Maximum Ratings and Thermal Characteristics @ Ta = 25℃ unless otherwise noted

Symbol	Characteristic	MSB6							Unit
		005	01	02	04	06	08	10	
V_{RRM}	Maxmum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
$I_{F(AV)}$	Average Forward Output Rectified Current@Ta =85℃	6							A
V_F	Forward Voltage Per Leg @I_{FM} =6.0A	1.05							V
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load	150							A
I_R	Maximum DC reverse current at rated Ta = 25℃ DC blocking voltage per leg Ta = 125℃	5 500							uA
i^2t	Rating for fusing (t<8.3ms)	93							A^2S
V_{isol}	Rms isolation voltage from case to leads	2500							V
CJ	Typical Junction Capacitance	50							pF
$R_{\theta JC}$	Maximum thermal resistance per leg	2							℃/W
Tj, T_{STG}	Operating Junction and storage temperature range	-55～150							℃

Note:
(1) Junction to case with heatsink
(2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw .

Rating and Characteristic Curves (T_A=25°C Unless otherwise noted)

MSB6005 thru MSB610

Fig 1-forwardCurrent derating Curve

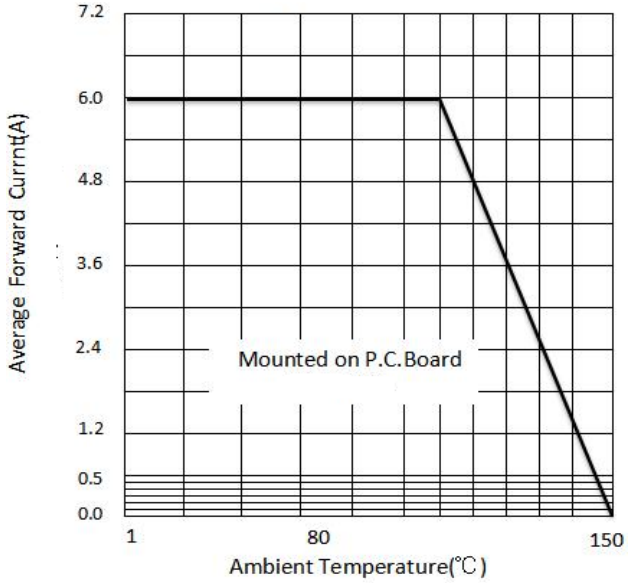


Fig.2-Maximum Non-Repetitive Surge Current

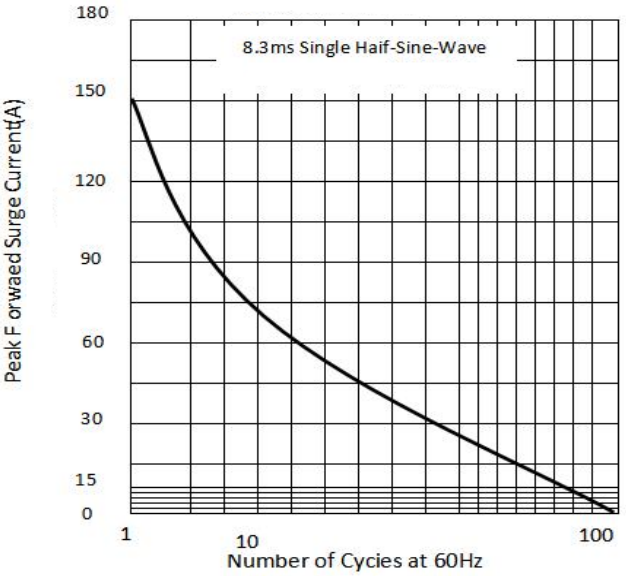


Fig.3-Typical Reverse Characteristics

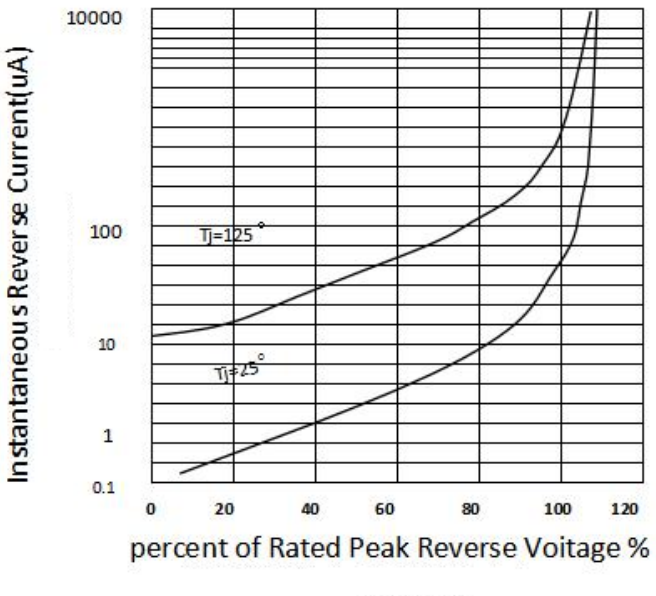


Fig.4-Typical Forwaed Characteristics