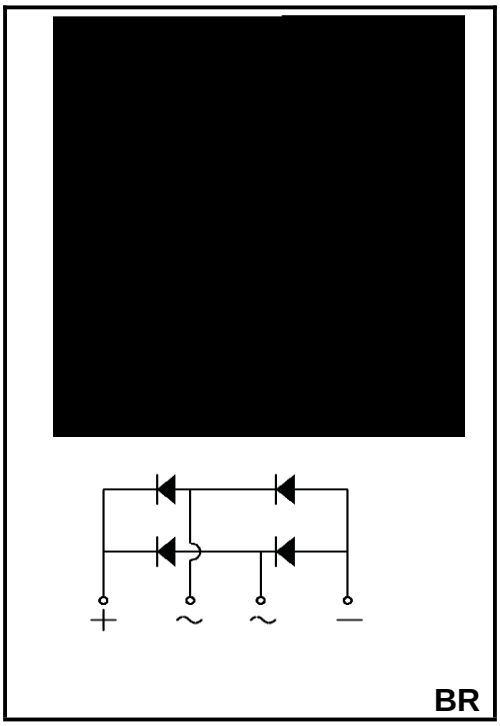
Single Phase Glass Passivated Bridge Rectifier

V_{RRM} - 1000V to 1600V

$I_{(AV)}$ - 50 A



FEATURES

- Glass passivated chip
- Low reverse leakage current
- High surge current capability

APPLICATIONS

- Electric welder
- Industrial power supply
- Inverter
- Uninterruptible power supply

MECHANICAL DATA

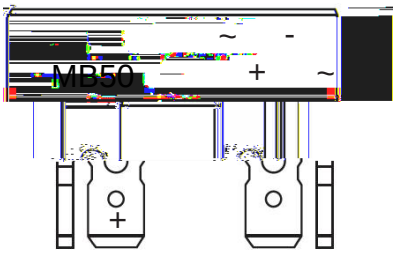
- Case:MB
- Polarity: Polarity symbols being marked on body
- Mounting torque: 12.0 kgf.cm max
- Weight: About20 grams

Maximum Ratings @ Ta = 25 unless otherwise noted

Parameter		Symbols	MB5010	MB5012	MB5014	MB5016	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	1200	1400	1600	V
Maximum RMS voltage		V_{RMS}	700	840	980	1120	V
Maximum DC Blocking Voltage		V_{DC}	1000	1200	1400	1600	V
Averagerectifiedoutputcurrent with heatsinkTc=85°C		$I_{(AV)}$	50				A
Peak surge forward current, 8.3mssingle half sine-wave superimposed on rated load		I_{FSM}	400				A
Rating for fusing1ms<t<8.3msTj=25 , Rating of per diode		I^2t	664				A^2s
Forward Voltage I_F=25A		V_F	1.1				V
Peak Reverse Current VR=VRRM ,Pulse measurementRating of per diode	Tj=25 Tj=125	I_R	5 500				μA
Dielectric strengthterminals to case AC 1 minute		V_{dis}	2.5				KV
Junction to ambientthermalresistance, without heatsink		$R_{\theta JA}$	26				/W
Junction to casethermalresistance, with heatsink		$R_{\theta JC}$	1.0				/W
Storage Temperature		T_{stg}	-55 ~ 150				°C
Openrating junction Temperature		T_j	-55 +150				°C

Characteristics

Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
MB	bulk	50PCS/Box 500PCS/Carton

Package Dimensions

MB

