MP3505W thru MP3510W

35.0 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50 to 1000V

Features

- Mounting Hole For #10 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position and Surge Rating Of 400 Amps
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Maximum Mounting Torque: 10 Kg·cm.
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

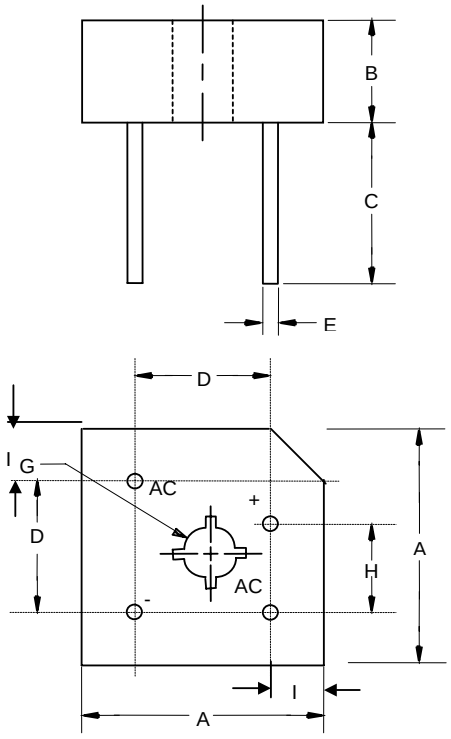
ZENIVO Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP3505W	MP3505W	50V	35V	50V
MP351W	MP351W	100V	70V	100V
MP352W	MP352W	200V	140V	200V
MP354W	MP354W	400V	280V	400V
MP356W	MP356W	600V	420V	600V
MP358W	MP358W	800V	560V	800V
MP3510W	MP3510W	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35.0A	T_C = 55°C
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	I_{FM} = 17.5A per element; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 500μA	T_J = 25°C T_J = 125°C
I^2t Rating for Fusing t<8.3mS	I^2t	660	A^2S
Typical Themal Resistance Junction to case(per element)	$R\theta jc$	3.0	K/W

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

MP-W



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.118	1.130	28.40	28.70	
B	.432	.442	10.97	11.23	
C	.769	---	19.53	---	
D	.673	.752	17.10	19.10	
E	.038	.042	.97	1.07	4PL/TYP
G	.193	---	4.90	---	∅
H	.429	.468	10.90	11.90	
i	.169	.236	4.30	6.00	

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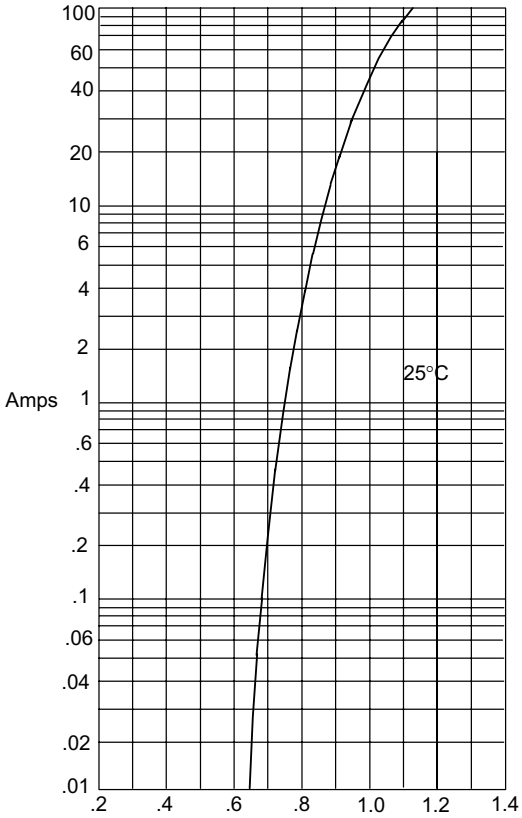
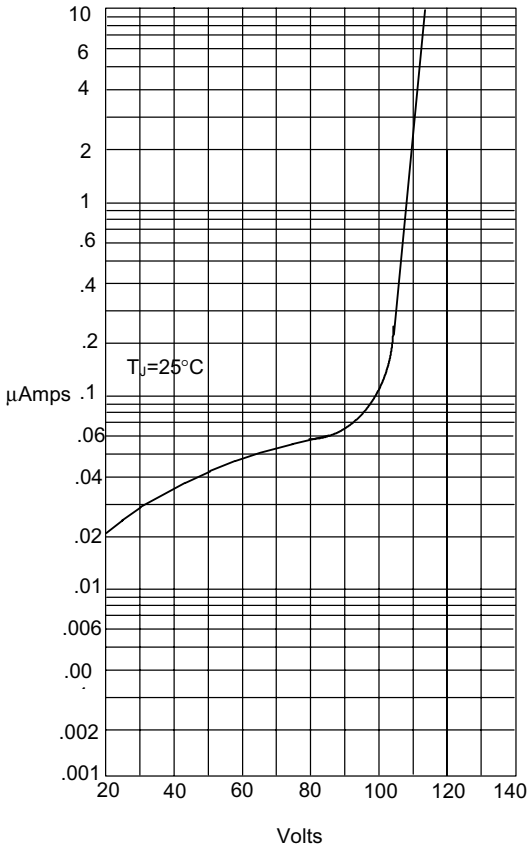
Figure 1
Typical Forward Characteristics



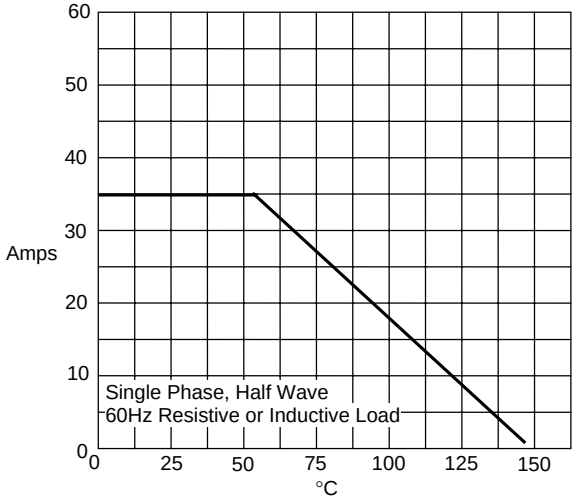
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



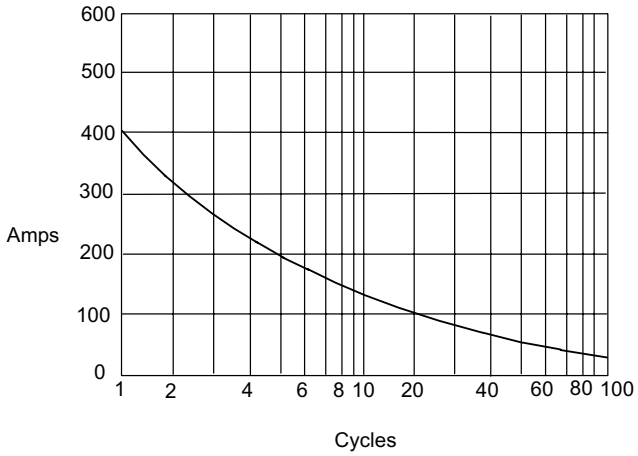
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Case Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles