



MPZ3524 MPZ3540

35A, 20-24V, 28-32V, 38-42V
AVALANCHE PRESS-FIT MOTOROLA DIODES

FEATURES

- High current capability
- Low forward voltage drop
- Low leakage current
- High surge current capability

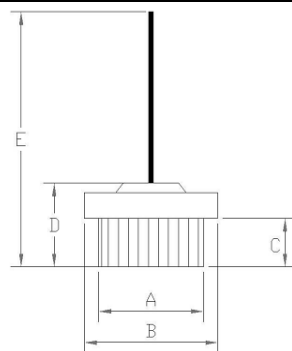
MECHANICAL DATA

Case: Copper NP

Terminals: Plated terminals, solderable per

MIL-STD-202, method 208.

Weight: 6.8grams



MP CASE

A=Ø12.75±0.45mm B=Ø15.8±0.2mm
C=5.6±0.1mm D=9.75±0.15mm
E=30.0mm max

Dimension in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. Unless otherwise specified. Single phase, half sine wave, 60HZ, resistive or inductive load.

For capacitive load, derate current by 20%

	SYMBOL	MPZ3524	MPZ3528	MPZ3540	UNITS
Maximum Current Peak Reverse Voltage	VRRM	16	20	34	Volts
Working Peak Reverse Voltage	VRWM	16	20	34	Volts
Maximum DC Blocking Voltage	VDC	16	20	34	Volts
Breakdown voltage Min@ IBR=100mA/TA=25°C	VBRL	20	24	38	Volts
Breakdown voltage Max@ IBR=100mA/TA=25°C	VBRH	24	32	42	Volts
TL=125°C Maximum Average Forward Rectified Current	I(AV)	35			Amps
Peak Forward Surge Current 8.3ms Single Sine-wave on Rated Load (JEDEC Method)	IFSM	400			Amps
Maximum Instantaneous Forward Voltage Drop at 35A DC	VF	1.0			Volts
TA=25°C Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	0.2			uA
IF=10mA Forward Voltage Temperature Coefficient	VFTS	2			mV/°C
Operating AND Storage Temperature Range	TSTG/ TJ	-55 to +150			°C

NOTE: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

RATING AND CHARACTERISTIC CURVES MPZ3524 THRU MPZ3540

FIG. 1 – MAXIMUM AVERAGE FORWARD CURRENT DERATING

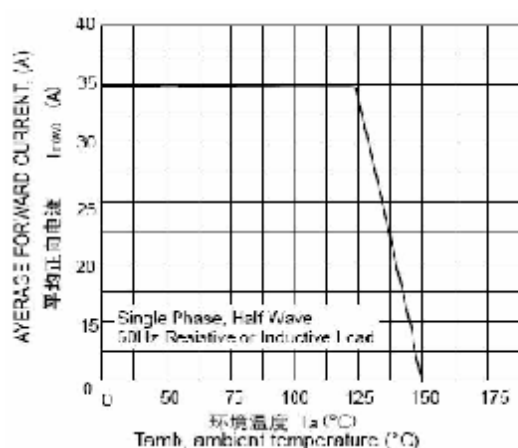


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

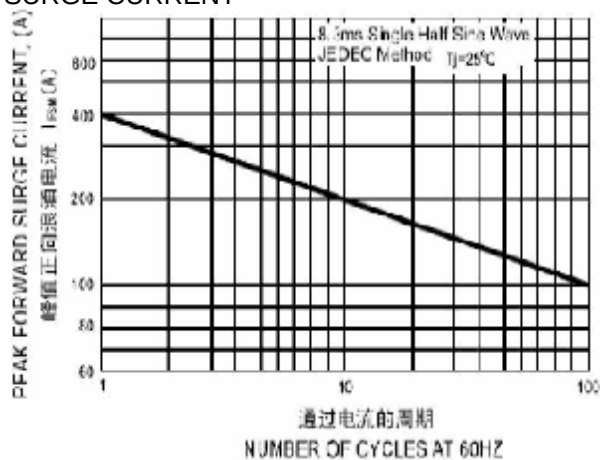


FIG. 3 – PULSE WAVEFORM

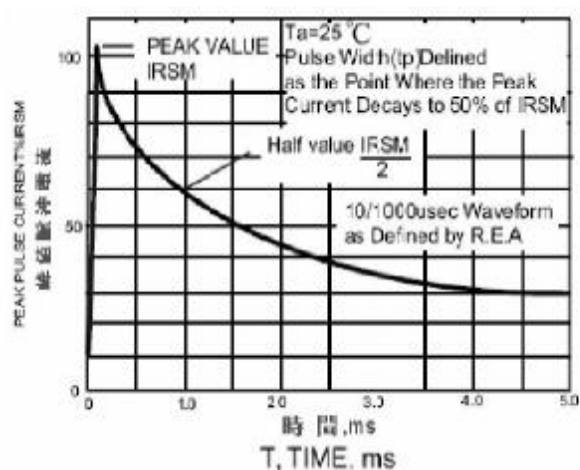


FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

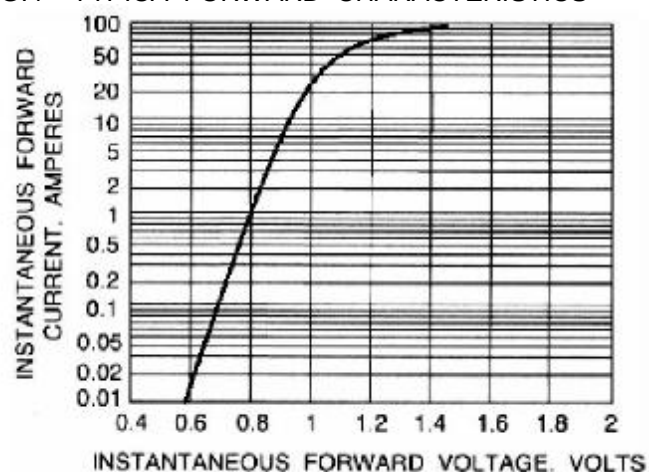


FIG. 5 – PULSE RATING CURVE

