



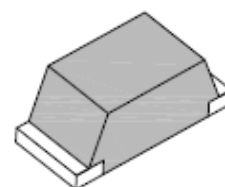
SURFACE MOUNT ULTRA FAST RECOVERY RECTIFIER

MFPH05S - MFPH10S

Surface Mount Ultra Fast Recovery Rectifier

Features

- Low leakage current
- For surface mounted applications
- Epoxy Molding Compound has UL Flammability Classification 94V-0
- RoHS Compliance



MFP



Mechanical Data

Case:	MFP / MINI-SMA, Molded plastic body
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Indicated by cathode band
Mounting Position:	Any
Weight:	0.04 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Description	MFPH 05S	MFPH 1S	MFPH 2S	MFPH 4S	MFPH 6S	MFPH 8S	MFPH 10S	Unit	Conditions
VRRM	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max. RMS Voltage	35	70	140	280	420	560	700	V	
IF(AV)	Average Forward Rectified Current	1.0							A	See Fig.1
IFSM	Peak Forward Surge Current	30							A	
VF	Max. Forward Voltage	1.0			1.3	1.7			V	
IR	Reverse Current @ VR = VRRM	5.0							uA	TA = 25°C
		150							uA	TA = 100°C
Trr	Max. Reverse Recovery Time	50				75			V	IF = 0.5A, IR = 1.0A, Irr = 0.25A.
RthJA	Thermal Resistance	42							°C / W	Junction to ambient
CJ	Diode Junction Capacitance	20							pF	F=1MHz and VR= 4V
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +150							° C	

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Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

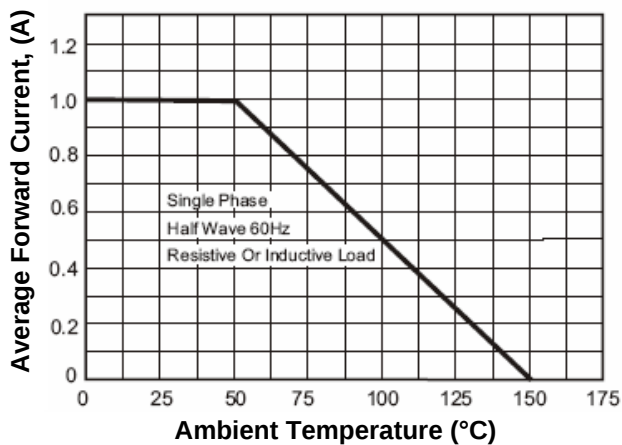


Fig.2- Maximum Non-Repetitive Forward Surge Current

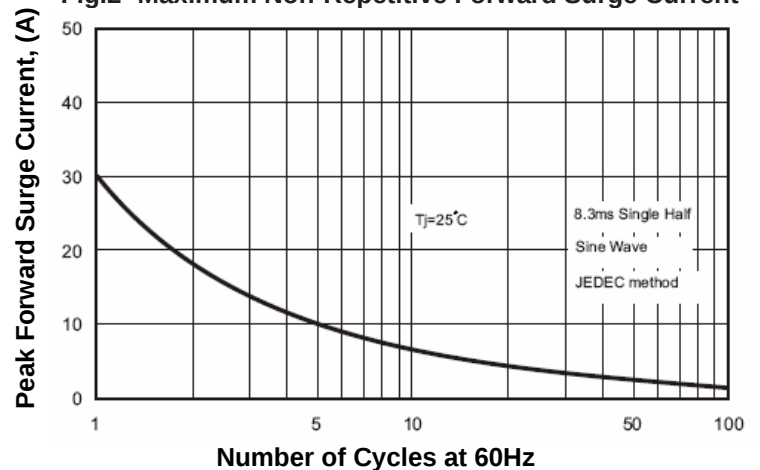


Fig.3- Typical Forward Characteristics

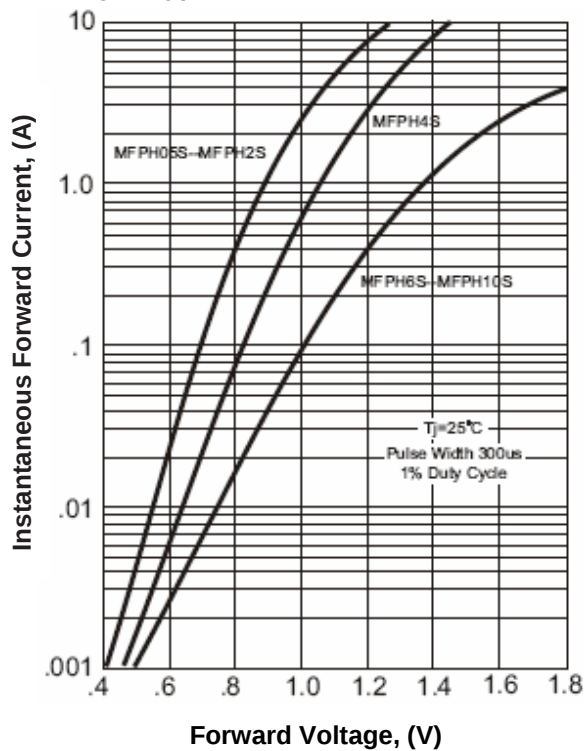
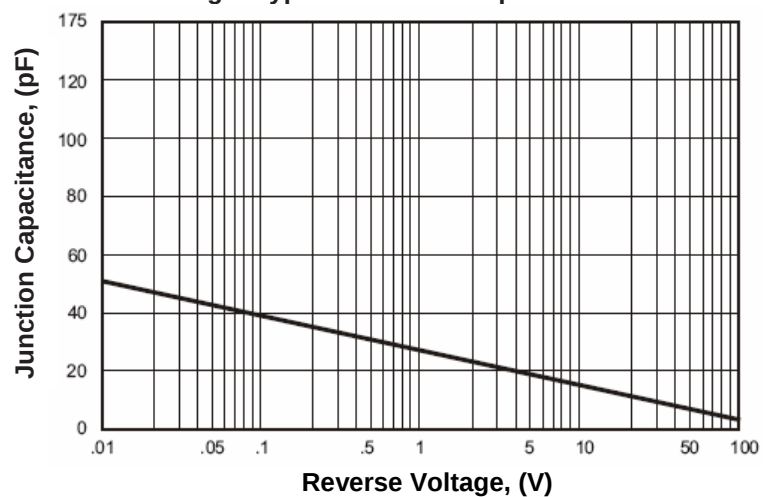


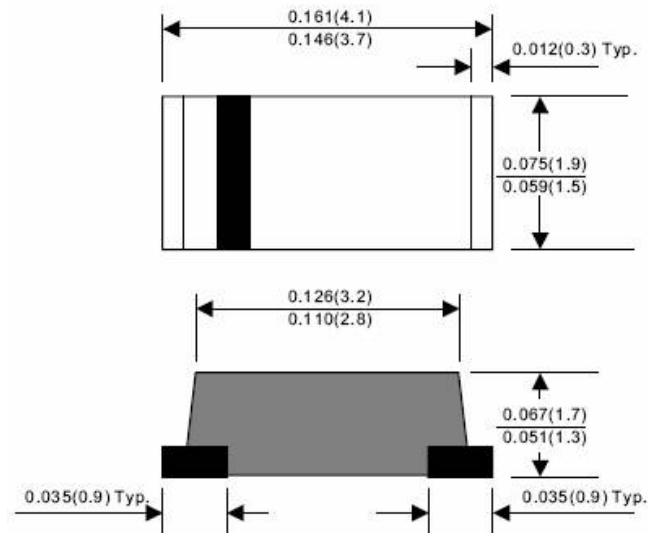
Fig.4- Typical Junction Capacitance



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Dimensions in inches (mm)



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