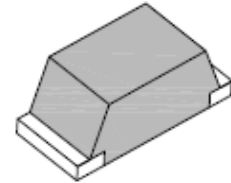


Surface Mount Ultra Fast Recovery Rectifier

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
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V	
I_{F(AV)}	Average Forward Rectified Current	1.0							A	See Fig.1
I_{FSM}	Peak Forward Surge Current	30							A	
V_F	Max. Forward Voltage	1.0		1.3		1.7			V	
I_R	Reverse Current @ V _R = V _{RRM}	5.0							uA	T _A = 25°C
		150							uA	T _A = 100°C
T_{rr}	Max. Reverse Recovery Time	50			75				V	I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A.
R_{thJA}	Thermal Resistance	42							°C / W	Junction to ambient
C_J	Diode Junction Capacitance	20							pF	F=1MHz and V _R = 4V
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150							°C	

Surface Mount Ultra Fast Recovery Rectifier

MFPH05S - MFPH10S

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

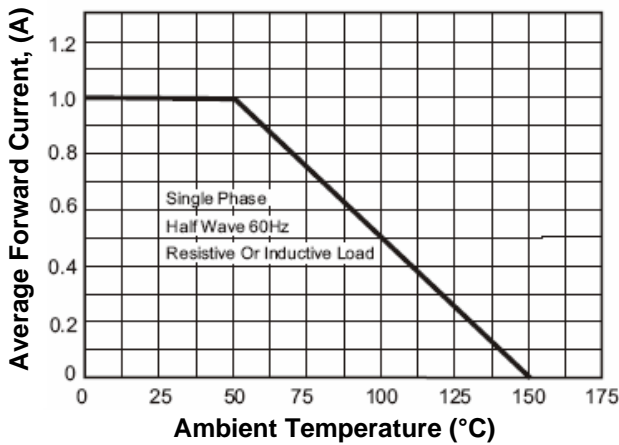


Fig.2- Maximum Non-Repetitive Forward Surge Current

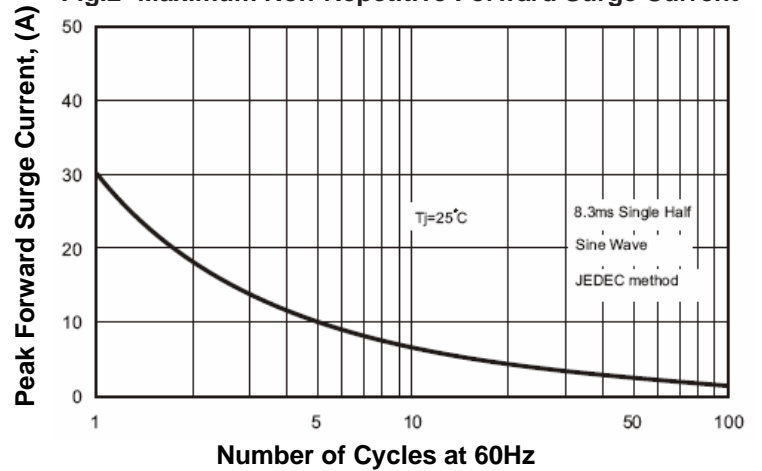


Fig.3- Typical Forward Characteristics

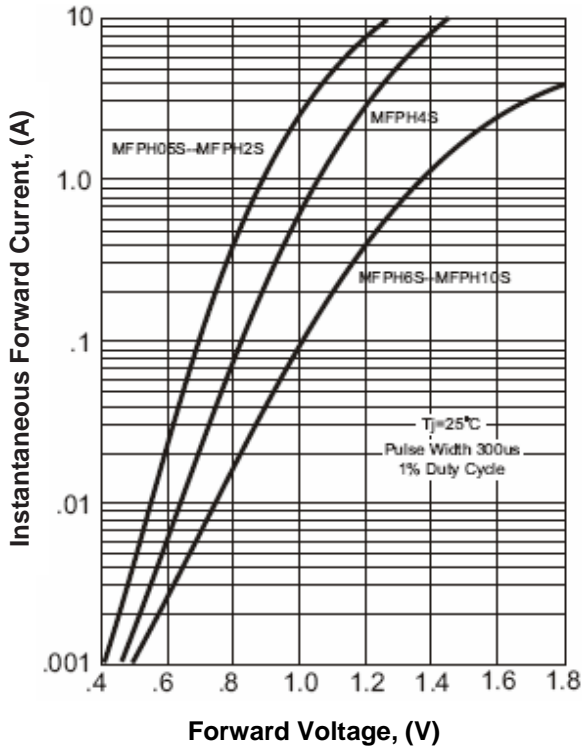
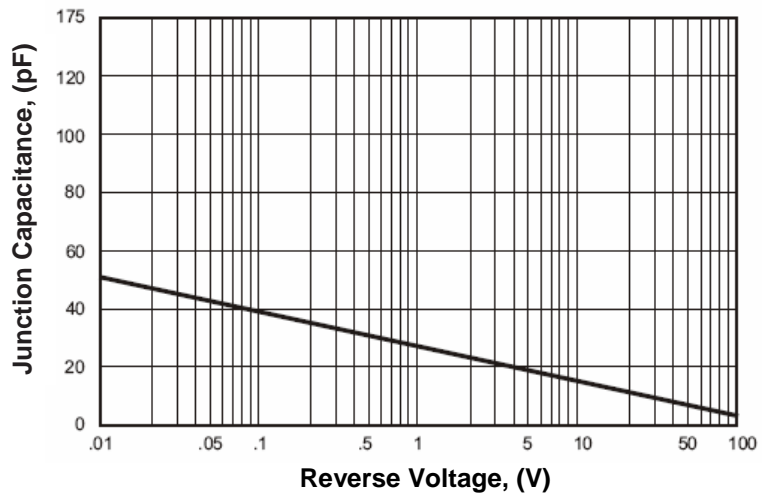


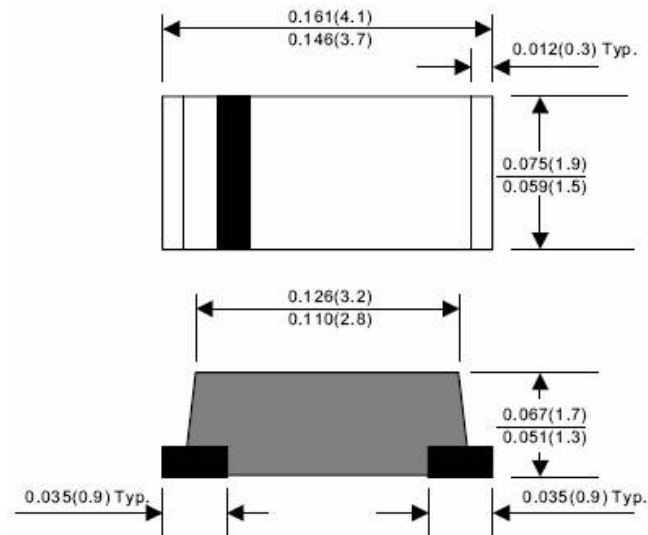
Fig.4-Typical Junction Capacitance



Surface Mount Ultra Fast Recovery Rectifier

MFPH05S - MFPH10S

Dimensions in inches (mm)



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