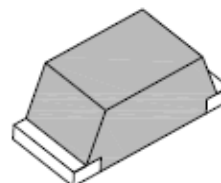


## 1.0A Surface Mount Schottky Rectifier

### Features

- Mini-SMA Package for Surface Mounted Applications
- Low Leakage Current, High Efficiency
- Epoxy Molding Compound has UL Flammability Classification 94V-0
- RoHS Compliance



MFP



### Mechanical Data

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

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

Symbol	Description	MFPS 2S	MFPS 3S	MFPS 4S	MFPS 5S	MFPS 6S	MFPS 8S	MFPS 10S	Unit	Conditions
<b>VRRM</b>	Max. Repetitive Peak Reverse Voltage	20	30	40	50	60	80	100	V	
<b>VRMS</b>	Max. RMS Voltage	14	21	28	35	42	56	70	V	
<b>IF(AV)</b>	Average Forward Rectified Current	1.0							A	See Fig.1
<b>IFSM</b>	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>VF</b>	Max. Forward Voltage	0.5			0.7		0.85		V	IF=1.0A
<b>IR</b>	Reverse Current @ VR = VRRM	0.5							mA	TA=25°C
		10							mA	TA=125°C
<b>RthJA</b>	Thermal Resistance	98							°C / W	Junction to ambient
<b>CJ</b>	Diode Junction Capacitance	120							pF	VR= 4V, f=1MHz
<b>TJ,TSTG</b>	Operating Junction and Storage Temperature Range	-55 to +125			-55 to +150				°C	

# 1.0A Surface Mount Schottky Rectifier

## MFPS2S - MFPS10S

### Typical Characteristics Curves

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Fig.1- Forward Current Derating Curve

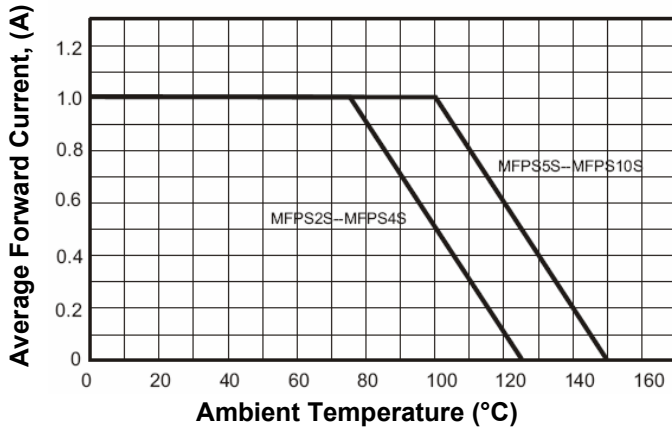


Fig.2- Typical Forward Characteristics

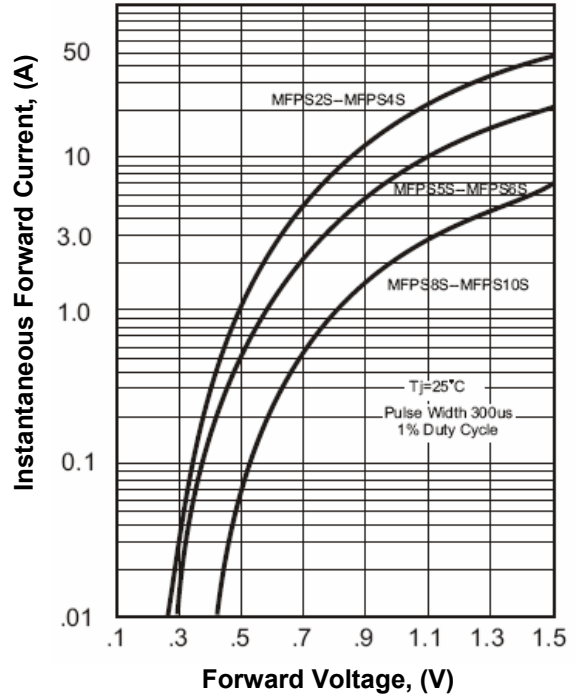


Fig.3- Maximum Non-Repetitive Forward Surge Current

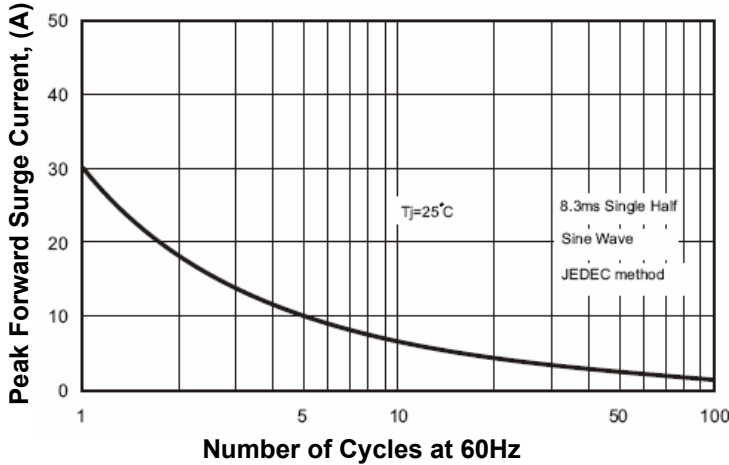
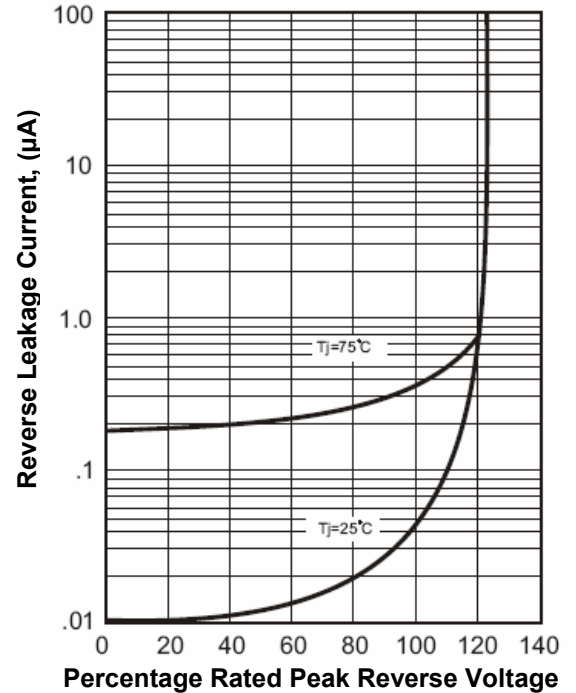


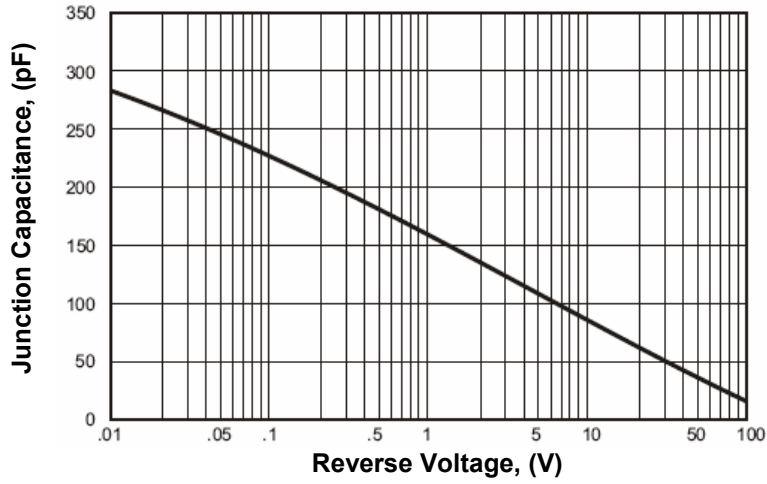
Fig.4- Typical Reverse Characteristics



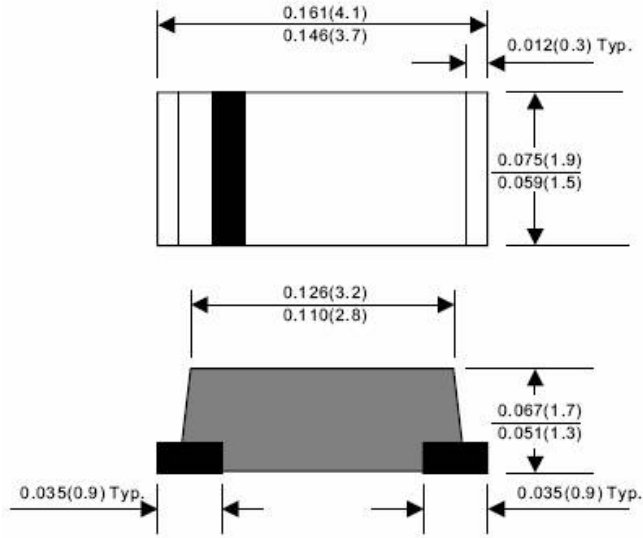
# 1.0A Surface Mount Schottky Rectifier

## MFPS2S - MFPS10S

Fig.5-Typical Junction Capacitance



### Dimensions in inches (mm)



MFP

# 1.0A Surface Mount Schottky Rectifier

## MFPS2S - MFPS10S

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