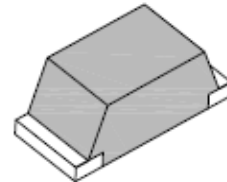


1.0A Surface Mount Schottky Rectifier

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

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	MFPS 2S	MFPS 3S	MFPS 4S	MFPS 5S	MFPS 6S	MFPS 8S	MFPS 10S	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	20	30	40	50	60	80	100	V	
V_{RMS}	Max. RMS Voltage	14	21	28	35	42	56	70	V	
I_{F(AV)}	Average Forward Rectified Current	1.0							A	See Fig.1
I_{FSM}	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Max. Forward Voltage	0.5		0.7		0.85			V	I _F =1.0A
I_R	Reverse Current @ V _R = V _{RRM}	0.5							mA	T _A =25°C
		10							mA	T _A =125°C
R_{thJA}	Thermal Resistance	98							°C / W	Junction to ambient
C_J	Diode Junction Capacitance	120							pF	V _R = 4V, f=1MHz
T_J, T_{STG}	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

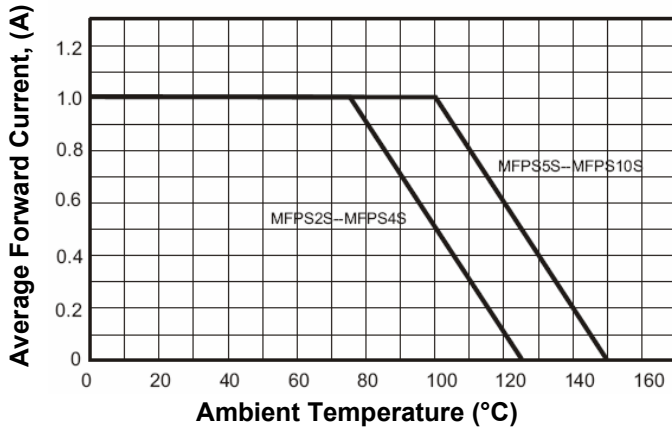


Fig.2- Typical Forward Characteristics

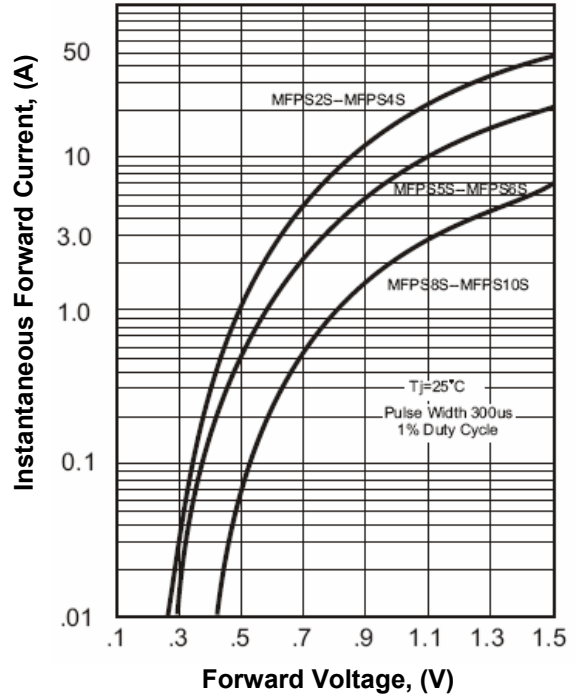


Fig.4- Typical Reverse Characteristics

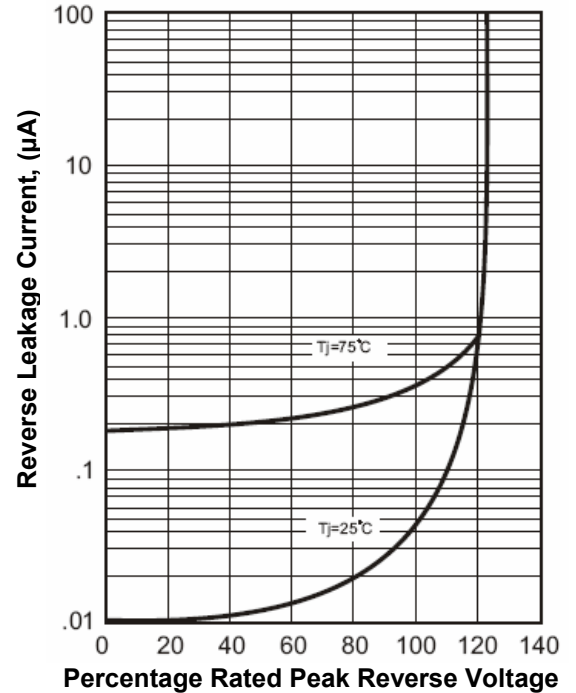
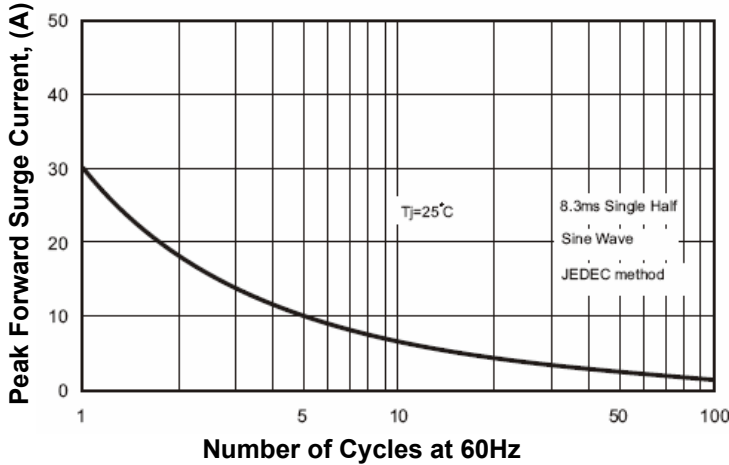


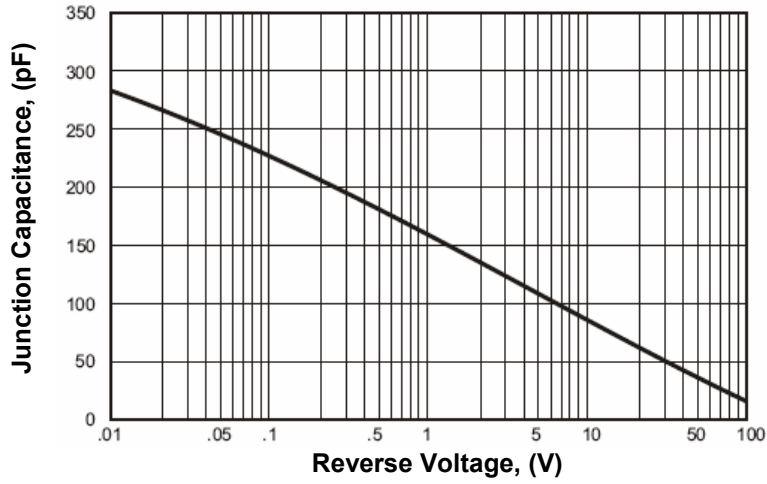
Fig.3- Maximum Non-Repetitive Forward Surge Current



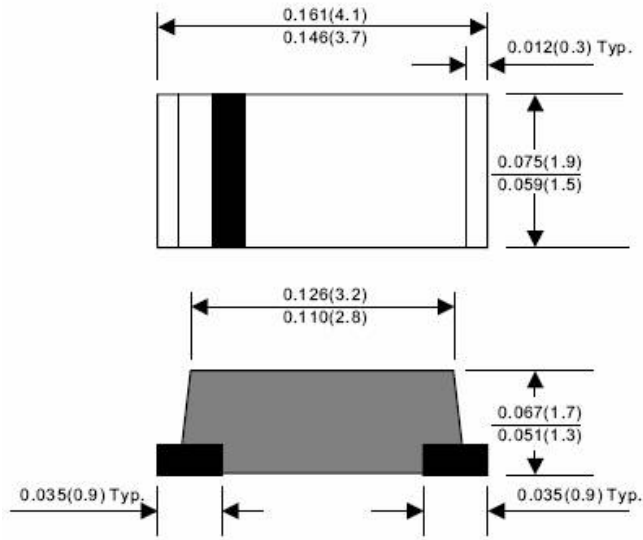
1.0A Surface Mount Schottky Rectifier

MFPS2S - MFPS10S

Fig.5-Typical Junction Capacitance



Dimensions in inches (mm)



MFP

1.0A Surface Mount Schottky Rectifier

MFPS2S - MFPS10S

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