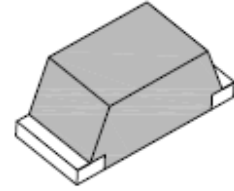


1.0A Surface Mount Schottky Rectifier

Features

- Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance
- Low profile surface mounted application in order to optimize board space
- Mini-SMA Package for Surface Mounted Applications
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Guarding for overvoltage protection
- Ultra high-speed switching.



MFP

Mechanical Data

Case:	MFP / MINI-SMA, Molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated terminals, solderable per MIL-STD-750, Method 2026
Polarity	Color band denotes the cathode end
Weight:	Approximated 0.018 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	MFPS 15S	MFPS 20S	Unit	Conditions
	Marking Code	12	13	14	15	16	18	10	115	120		
VRRM	Max. Repetitive Peak Reverse Voltage	20	30	40	50	60	80	100	150	200	V	
VRMS	Max. RMS Voltage	14	21	28	35	42	56	70	105	140	V	
IF(AV)	Average Forward Rectified Current	1.0									A	See Fig.1
IFSM	Peak Forward Surge Current	30									A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Max. Forward Voltage	0.50		0.70		0.85		0.90	0.92		V	IF=1.0A
IR	Max. Reverse Current @ $V_R = V_{RRM}$	0.5									mA	$T_A=25^\circ\text{C}$
		10									mA	$T_A=100^\circ\text{C}$

1.0A Surface Mount Schottky Rectifier

MFPS2S - MFPS20S

Symbol	Description	MFPS 2S	MFPS 3S	MFPS 4S	MFPS 5S	MFPS 6S	MFPS 8S	MFPS 10S	MFPS 15S	MFPS 20S	Unit	Conditions
C_J	Typical Diode Junction Capacitance	120									pF	VR= 4V, f=1MHz
T_J	Operating Junction	-55 to +125			-55 to +150							
T_{STG}	Storage Temperature Range	-65 to +175									°C	

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

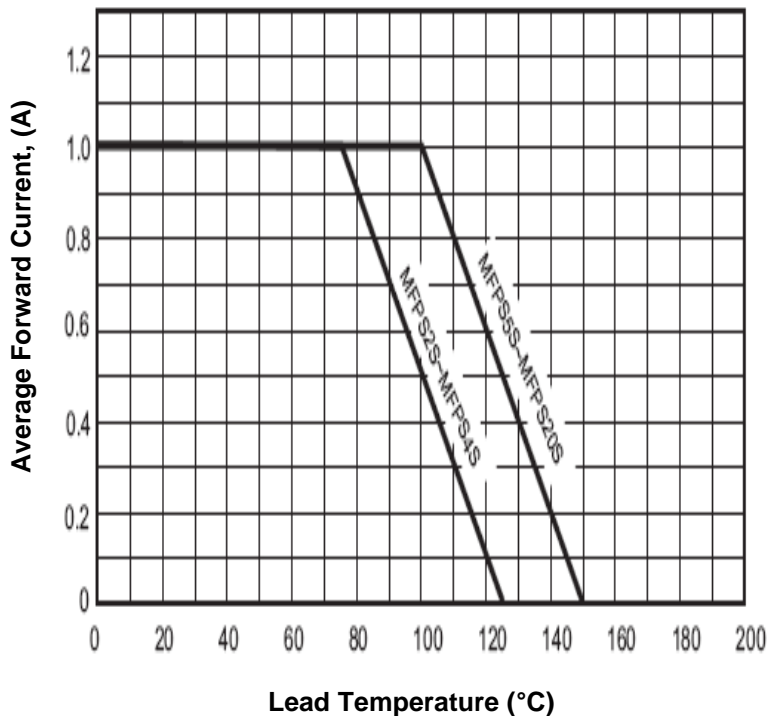
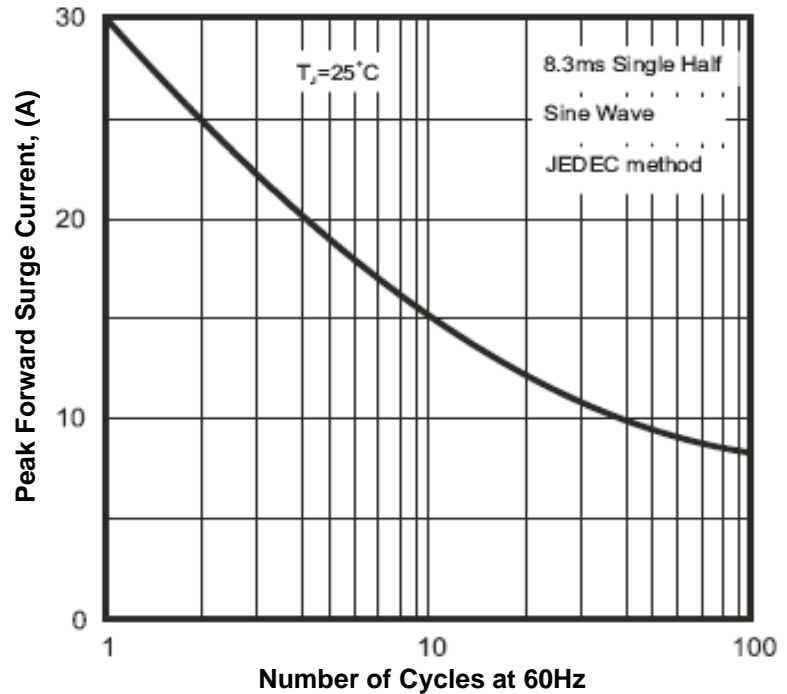


Fig.2- Maximum Non-Repetitive Forward Surge Current



1.0A Surface Mount Schottky Rectifier

MFPS2S - MFPS20S

Fig.3- Typical Forward Characteristics

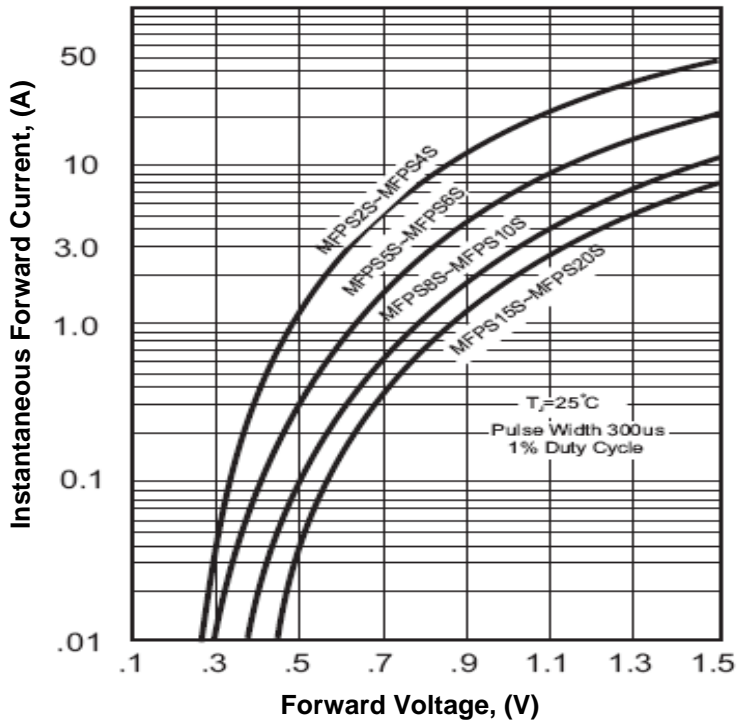


Fig.4- Typical Reverse Characteristics

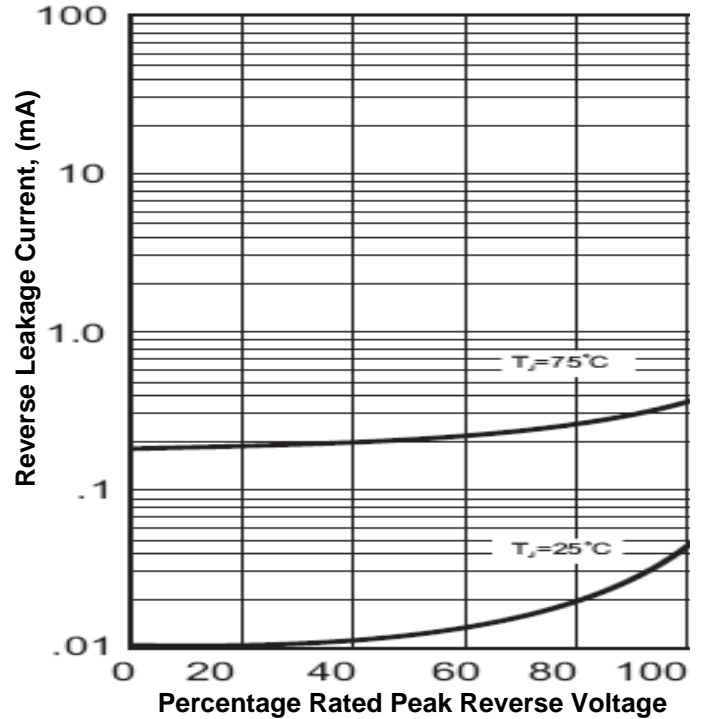
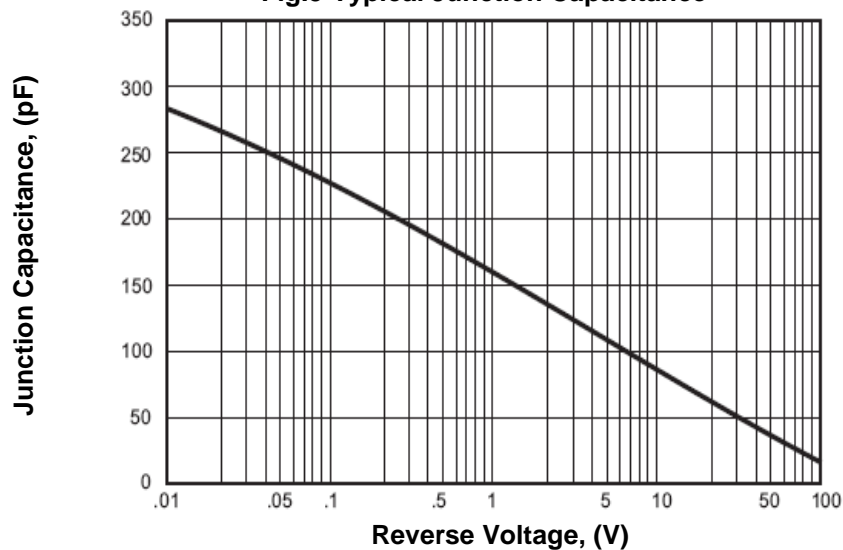


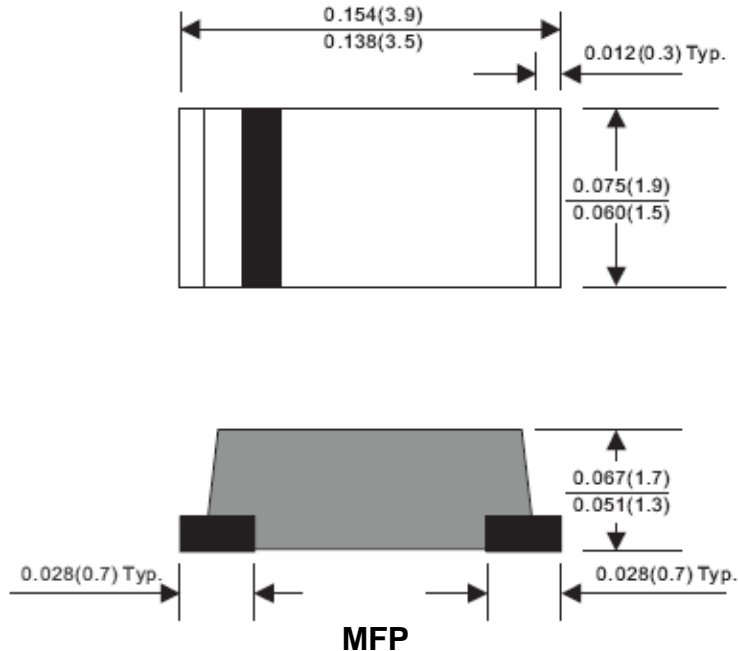
Fig.5-Typical Junction Capacitance



1.0A Surface Mount Schottky Rectifier

MFPS2S - MFPS20S

Dimensions in inches (mm)



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