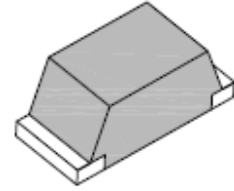


2.0A Surface Mount Schottky Rectifier

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 22S	MFPS 23S	MFPS 24S	MFPS 25S	MFPS 26S	MFPS 28S	MFPS 210S	MFPS 215S	MFPS 220S	Unit	Conditions
	Marking Code	22	23	24	25	26	28	20	215	220		
V_{RRM}	Max. Repetitive Peak Reverse Voltage	20	30	40	50	60	80	100	150	200	V	
V_{RMS}	Max. RMS Voltage	14	21	28	35	42	56	70	105	140	V	
I_{F(AV)}	Average Forward Rectified Current	2.0									A	See Fig.1
I_{FSM}	Peak Forward Surge Current	50									A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Max. Forward Voltage	0.50		0.70		0.85		0.90	0.92		V	I _F =2.0A
I_R	Max. Reverse Current @ V _R = V _{RRM}	0.5									mA	T _A =25°C
		10									mA	T _A =100°C

2.0A Surface Mount Schottky Rectifier

MFPS22S - MFPS220S

Symbol	Description	MFPS 22S	MFPS 23S	MFPS 24S	MFPS 25S	MFPS 26S	MFPS 28S	MFPS 210S	MFPS 215S	MFPS 220S	Unit	Conditions
C_J	Typical Diode Junction Capacitance	160									pF	VR= 4V, f=1MHz
T_J	Operating Junction	-55 to +125			-55 to +150						°C	
T_{STG}	Storage Temperature Range	-65 to +175									°C	

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

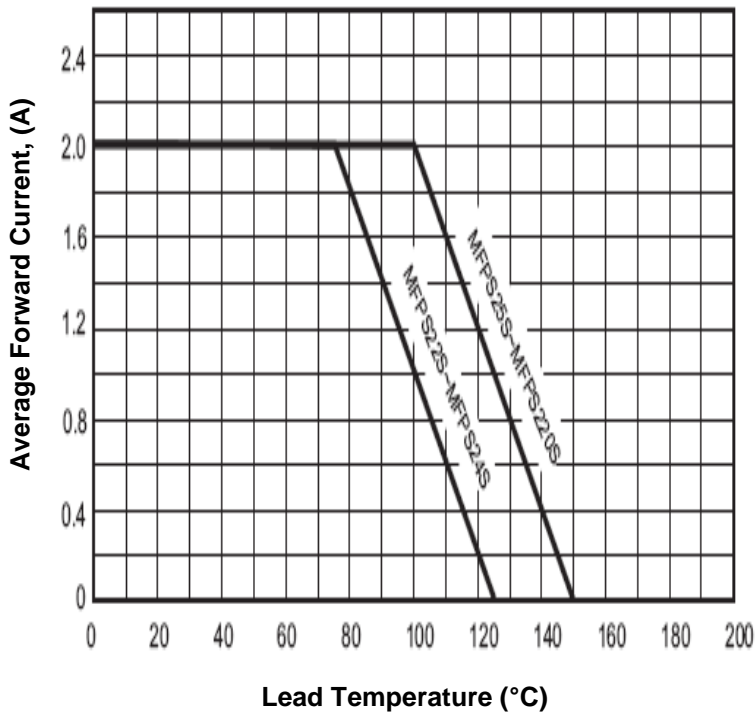
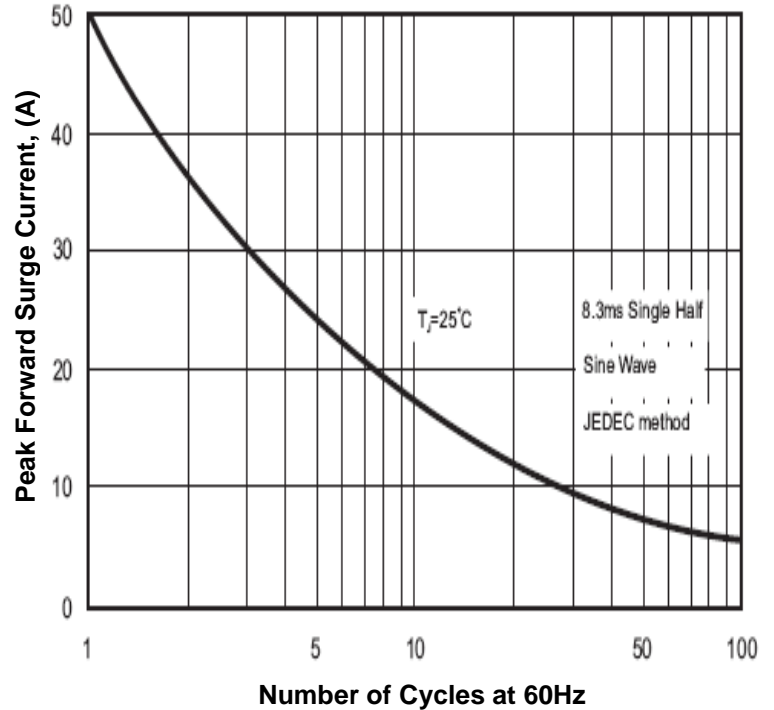


Fig.2- Maximum Non-Repetitive Forward Surge Current



2.0A Surface Mount Schottky Rectifier

MFPS22S - MFPS220S

Fig.3- Typical Forward Characteristics

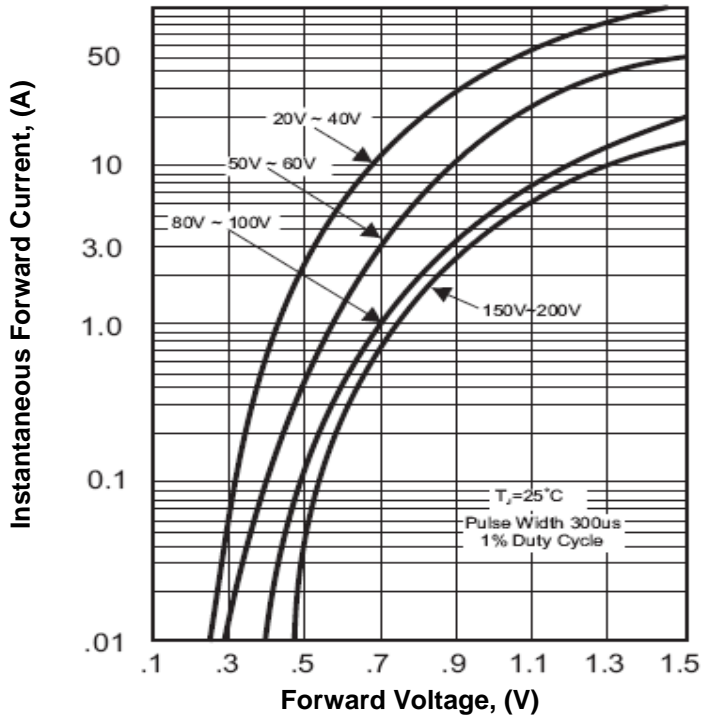


Fig.4- Typical Reverse Characteristics

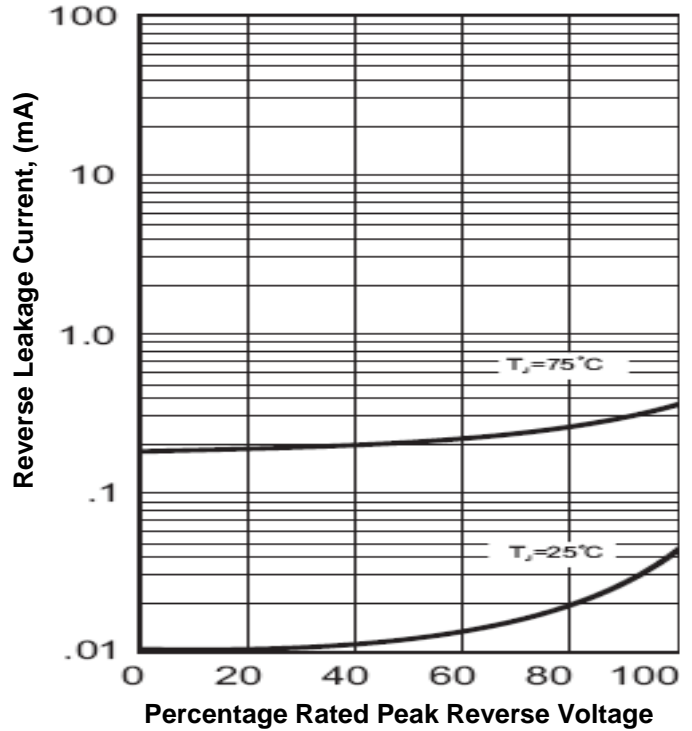
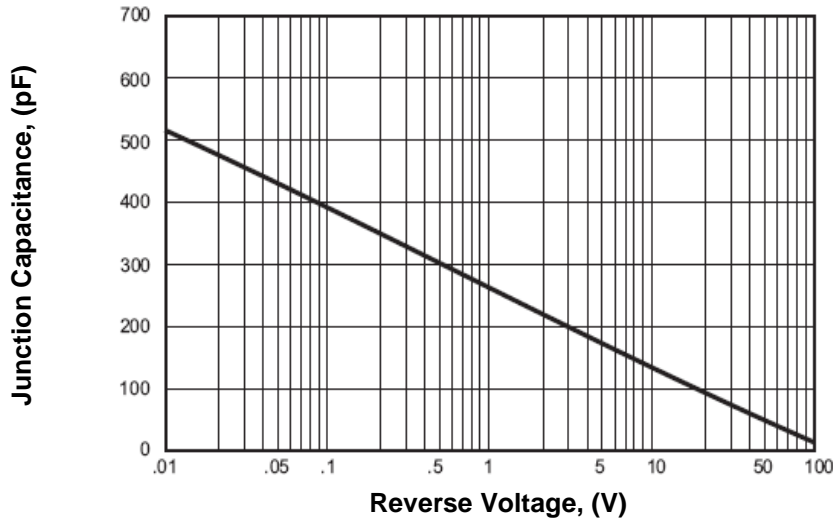


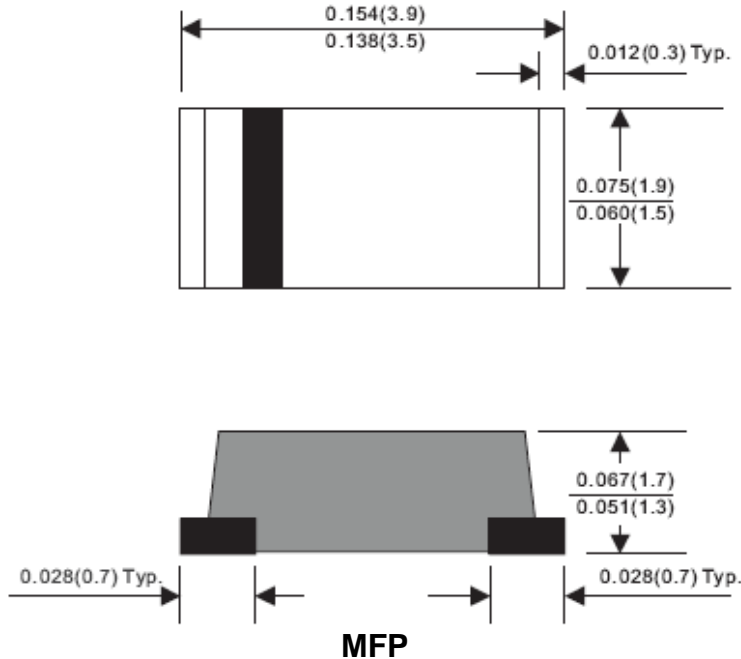
Fig.5-Typical Junction Capacitance



2.0A Surface Mount Schottky Rectifier

MFPS22S - MFPS220S

Dimensions in inches (mm)



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