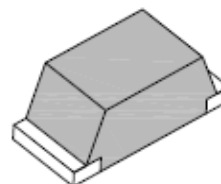


Surface Mount Super Fast Recovery Rectifier

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	MFPU 1S	MFPU 2S	MFPU 3S	MFPU 4S	MFPU 5S	MFPU 6S	Unit	Conditions
VRRM	Max. Repetitive Peak Reverse Voltage	50	100	150	200	300	400	V	
VRMS	Max. RMS Voltage	35	70	105	140	210	280	V	
IF(AV)	Average Forward Rectified Current	1.0						A	TA = 50°C
IFSM	Peak Forward Surge Current	30						A	
VF	Max. Forward Voltage	0.95				1.25		V	IF=1.0A
IR	Reverse Current @ VR = VRRM	5.0						uA	TA = 25°C
		100						uA	TA = 100°C
Trr	Max. Reverse Recovery Time	35						V	IF = 0.5A, IR = 1.0A, Irr = 0.25A.
RthJA	Thermal Resistance	42						°C / W	Junction to ambient
CJ	Diode Junction Capacitance	10						pF	F=1MHz and VR= 4V
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +150						° C	

Surface Mount Super Fast Recovery Rectifier

MFPU1S - MFPU6S

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

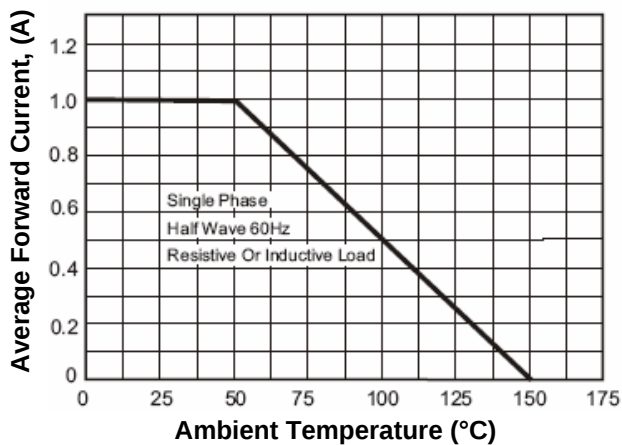


Fig.2- Maximum Non-Repetitive Forward Surge Current

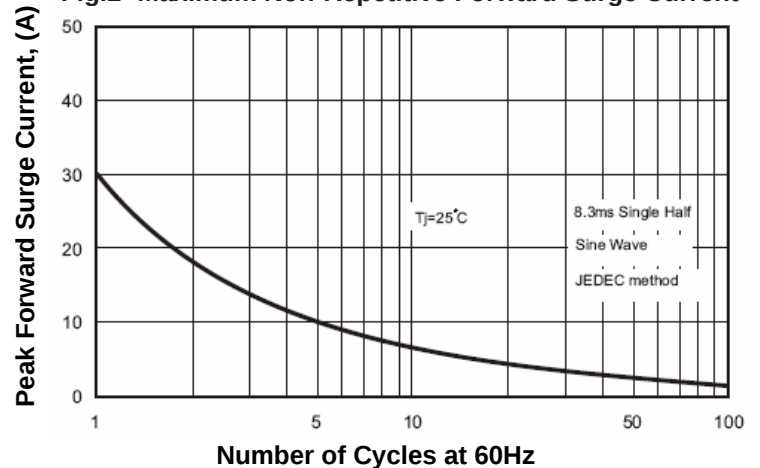


Fig.3- Typical Forward Characteristics

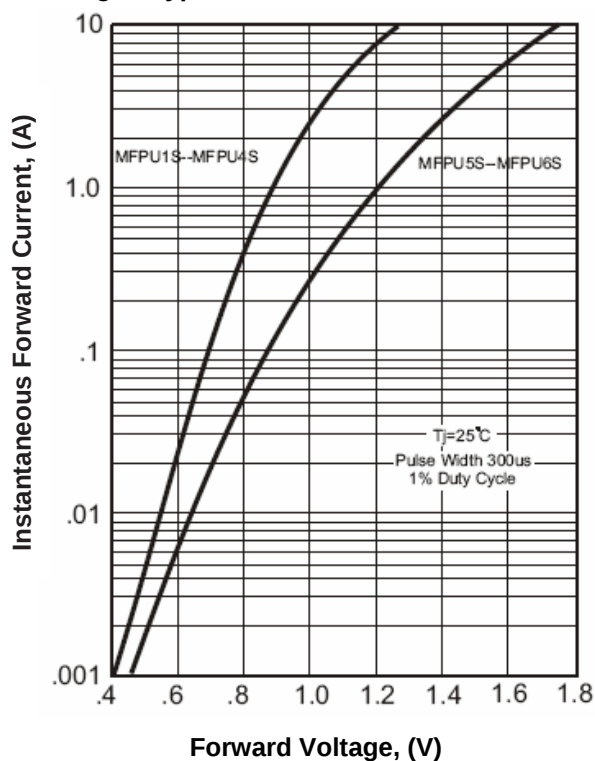
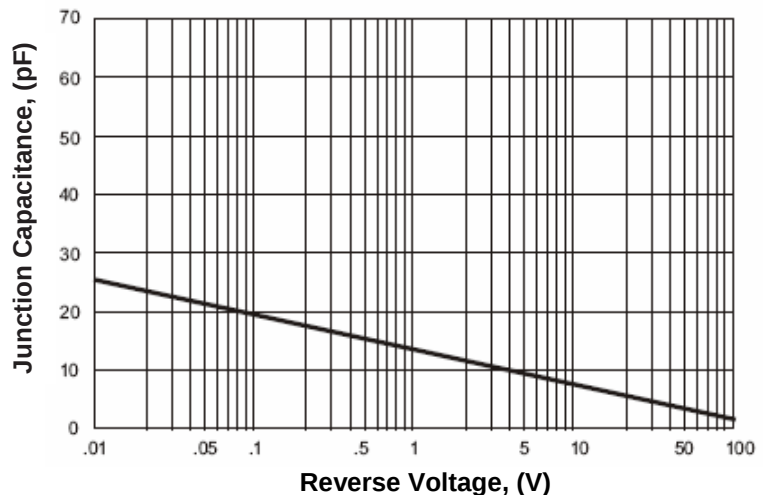


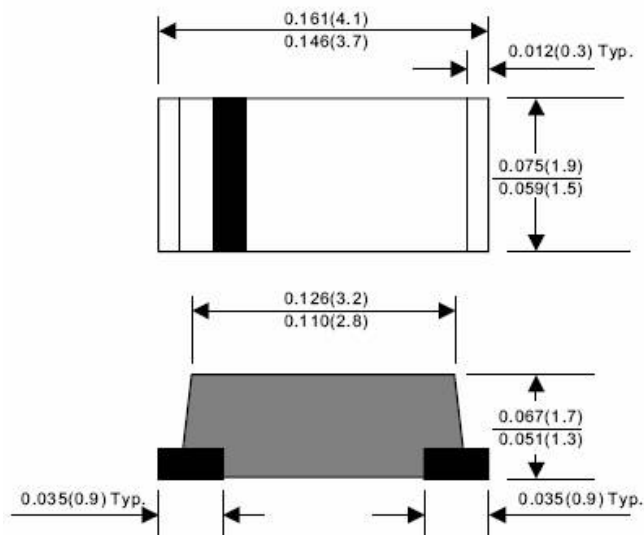
Fig.4- Typical Junction Capacitance



Surface Mount Super Fast Recovery Rectifier

MFPU1S - MFPU6S

Dimensions in inches (mm)



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