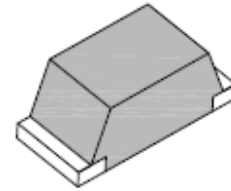


Surface Mount Fast Recovery Rectifier

Features

- Low leakage current
- For surface mounted applications
- Epoxy Molding Compound has UL Flammability Classification 94V-0



MFP

Mechanical Data

Case:	MFPR / 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	MFPR 05S	MFPR 1S	MFPR 2S	MFPR 4S	MFPR 6S	MFPR 8S	MFPR 10S	Unit	Conditions	
VRRM	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V		
VRMS	Max. RMS Voltage	35	70	140	280	420	560	700	V		
VF	Max. Forward Voltage	1.2								V	
IF(AV)	Average Forward Rectified Current	1.0								A	See Fig.1
IFSM	Peak Forward Surge Current	30								A	
IR	Reverse Current @ $V_R = V_{RRM}$	5.0								uA	$T_A = 25^\circ\text{C}$
		100								uA	$T_A = 100^\circ\text{C}$
Trr	Max. Reverse Recovery Time	150				250	500			V	$I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.
RthJA	Thermal Resistance	42								$^\circ\text{C} / \text{W}$	Junction to ambient
CJ	Diode Junction Capacitance	15								pF	$F=1\text{MHz}$ and $V_R=4\text{V}$
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +150								$^\circ\text{C}$	

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

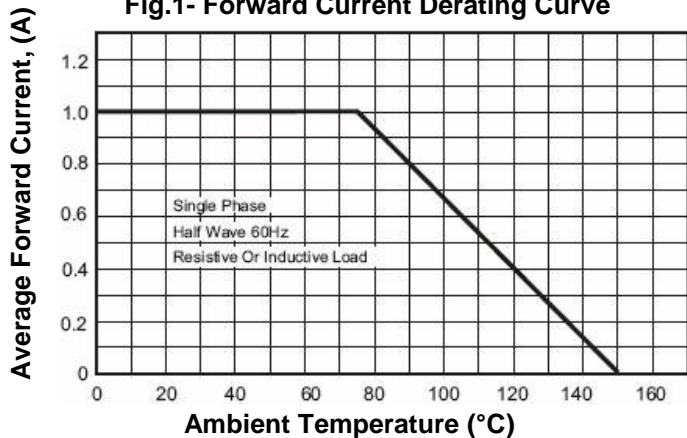


Fig.3- Typical Forward Characteristics

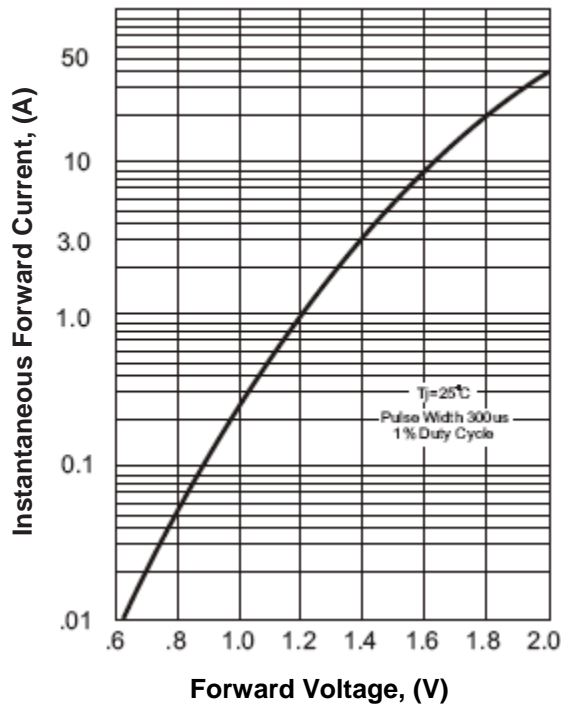


Fig.2- Maximum Non-Repetitive Forward Surge Current

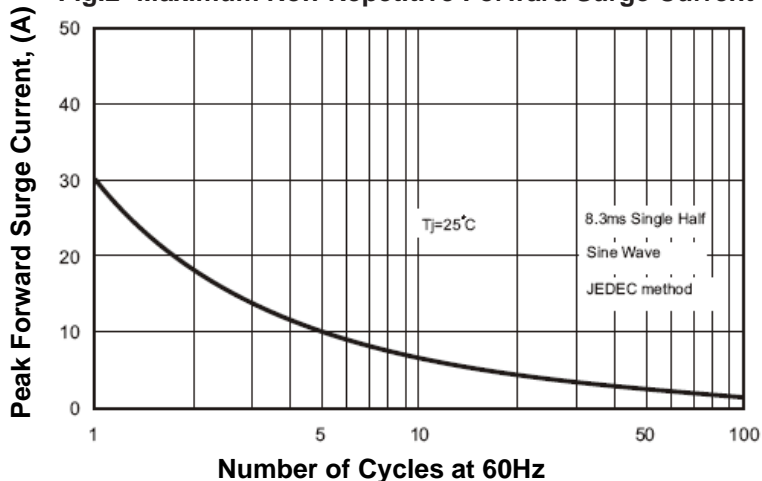
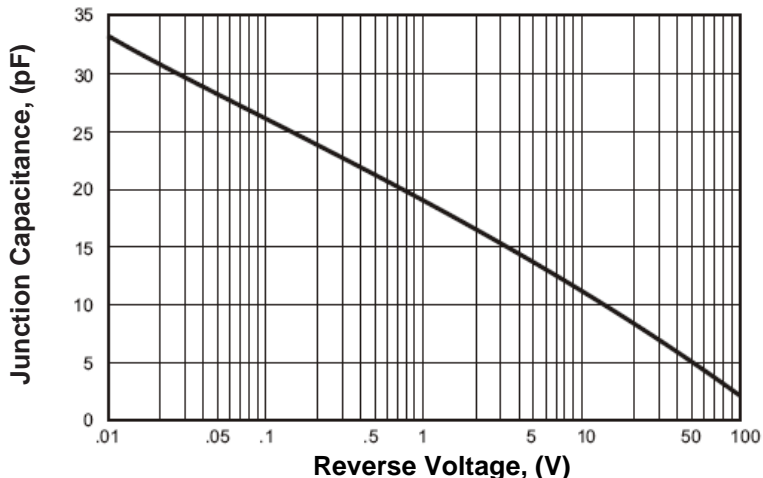


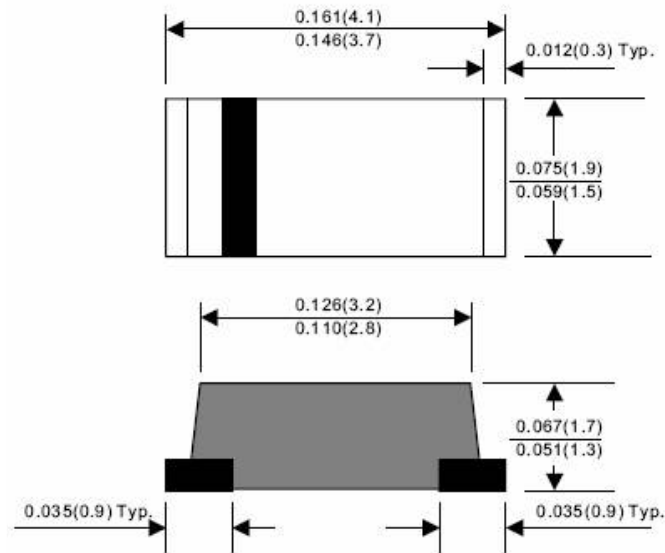
Fig.4-Typical Junction Capacitance



Surface Mount Fast Recovery Rectifier

MFPR05S - MFPR10S

Dimensions in inches (mm)



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