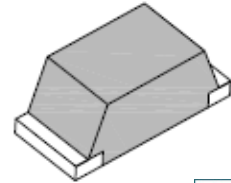


Surface Mount Glass Passivated Rectifier

Features

- Low leakage current
- For surface mounted applications
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Utilizing Flame Retardant Epoxy Molding Compound
- RoHS Compliance



MFP



Mechanical Data

Case:	JEDEC SOD-123 / 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 ($T_A=25^{\circ}C$ unless otherwise noted)

Symbol	Description	MFPT 05S	MFPT 1S	MFPT 2S	MFPT 4S	MFPT 6S	MFPT 8S	MFPT 10S	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_R	Continuous Reverse Voltage	50	100	200	400	600	800	1000	V	
V_F	Maximum Forward Voltage	1.1							V	
I_O	Forward rectified current	1							A	See Fig.1
I_{FSM}	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
I_R	Reverse Current	5.0							uA	$V_R = V_{RRM}$ $T_A = 25^{\circ}C$
		50							uA	$V_R = V_{RRM}$ $T_A = 100^{\circ}C$

Surface Mount Glass Passivated Rectifier

MFPT05S - MFPT10S

Symbol	Description	MFPT 05S	MFPT 1S	MFPT 2S	MFPT 4S	MFPT 6S	MFPT 8S	MFPT 10S	Unit	Conditions
RthJA	Thermal Resistance	60							°C / W	Junction to ambient
RthJc		30								Junction to case
CJ	Diode Junction Capacitance	15							pF	F = 1MHz and applied 4vDC reverse voltage
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +150							°C	

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

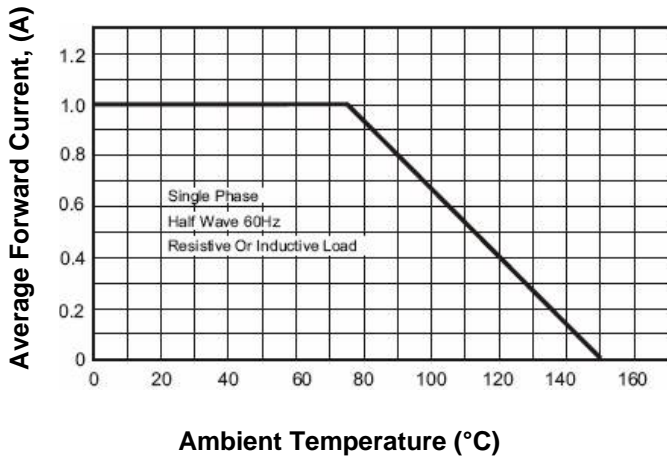
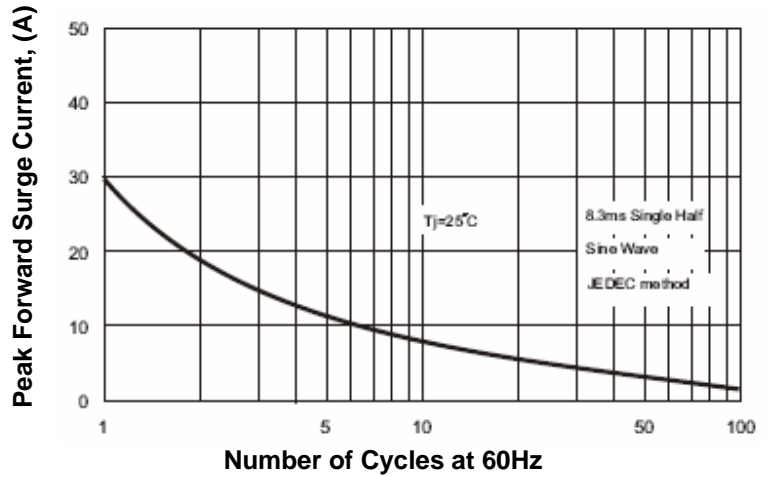


Fig.2- Maximum Non-Repetitive Forward Surge Current



Surface Mount Glass Passivated Rectifier

MFPT05S - MFPT10S

Fig.3- Typical Forward Characteristics

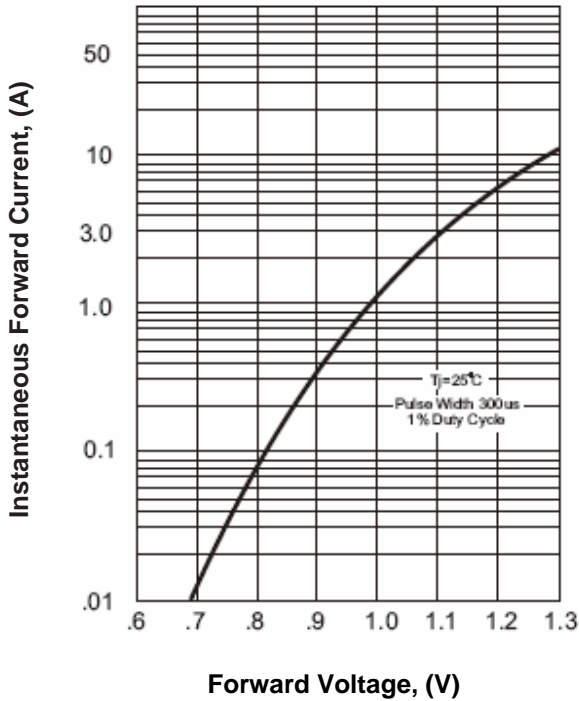


Fig.4- Typical Reverse Characteristics

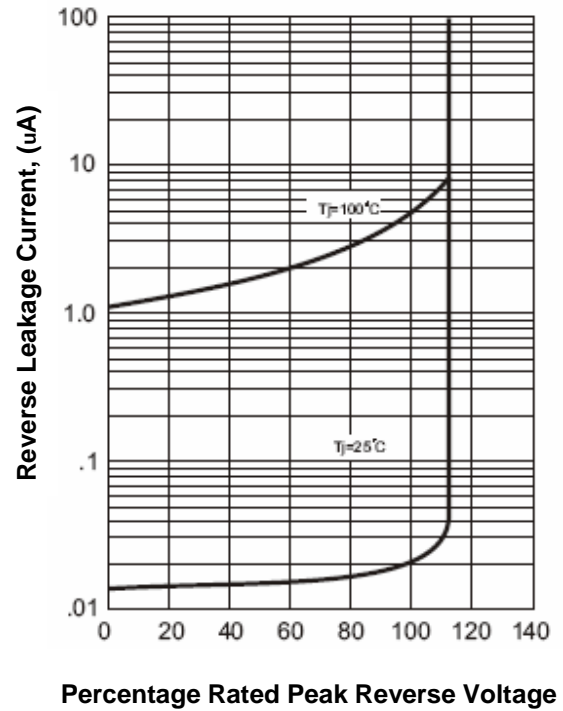
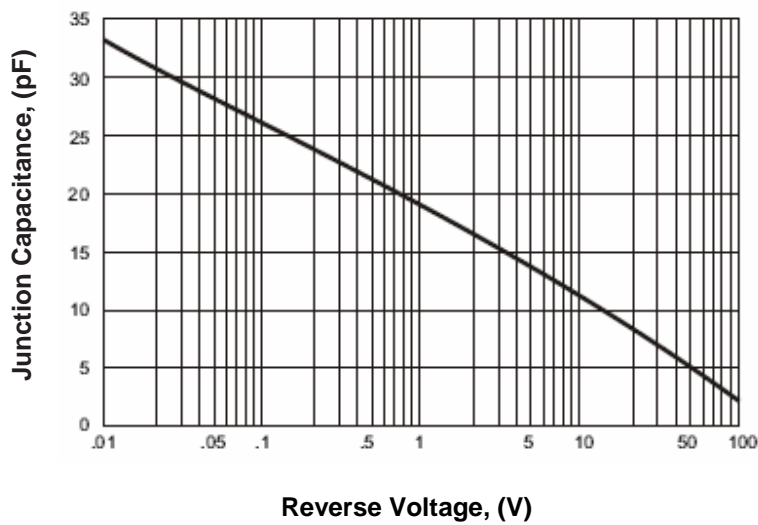


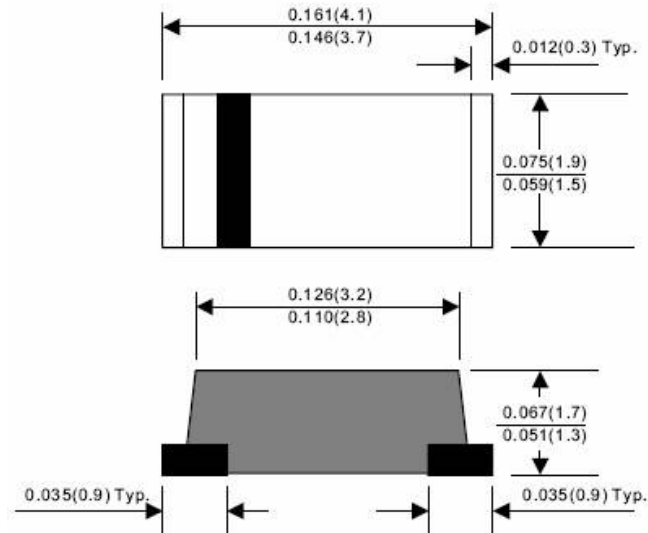
Fig.5-Typical Junction Capacitance



Surface Mount Glass Passivated Rectifier

MFPT05S - MFPT10S

Dimensions in inches (mm)



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