

FSM11PL THRU FSM16PL

Features

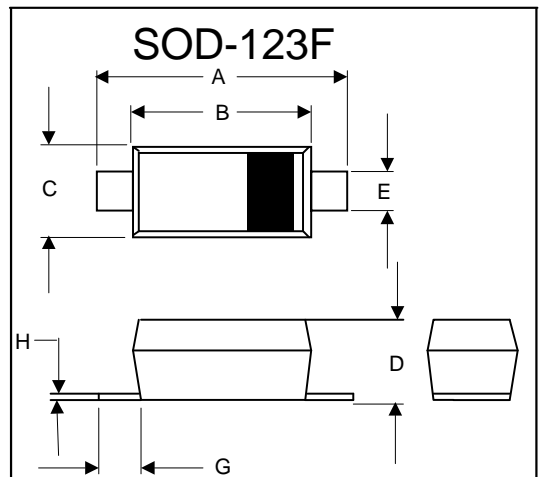
For Surface Mount Application
 Case Material: Molded Plastic. UL Flammability
 Classification Rating 94V-0
 Glass Passivated Junction
 Super Fast Recovery Time For High Efficiency

**1.0 Amp Super Fast
 Recovery Rectifier
 50 to 800 Volts**

Maximum Ratings

Operating Temperature(T_J): -65 to +150
 Storage Temperature(T_{STG}): -65 to +150
 Maximum Thermal Resistance(R_{thJA}): 75 /W*

GM Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FSM11PL		50V	35V	50V
FSM12PL		100V	70V	100V
FSM13PL		200V	140V	200V
FSM14PL		400V	280V	400V
FSM15PL		600V	420V	600V
FSM16PL		800V	560V	800V

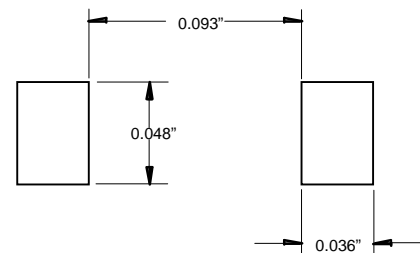


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	-----	0.25	-----	
H	-----	.008	-----	.20	

Electrical Characteristics @ 25 Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0 A	T _L = 110
Peak Forward Surge Current	I _{FSM}	30.0A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.3V	I _{FM} =1.0A; T _A = 25
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0 A 100uA	T _A = 25 T _A =55
Maximum Reverse Recovery Time FSM11PL-14PL FSM15PL FSM16PL	T _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	C _J	15pF	Measured at 1.0MHz, V _R =4.0V

SUGGESTED SOLDER PAD LAYOUT



*6.0mm² copper pads to each terminal

FSM11PL-FSM16PL



Figure 1
Typical Reverse Characteristics

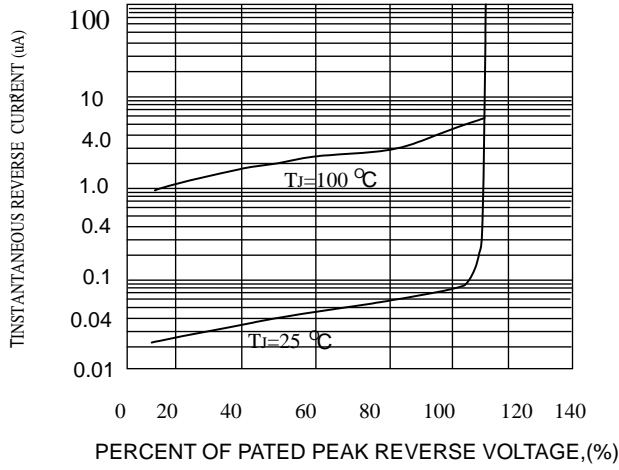


Figure 2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

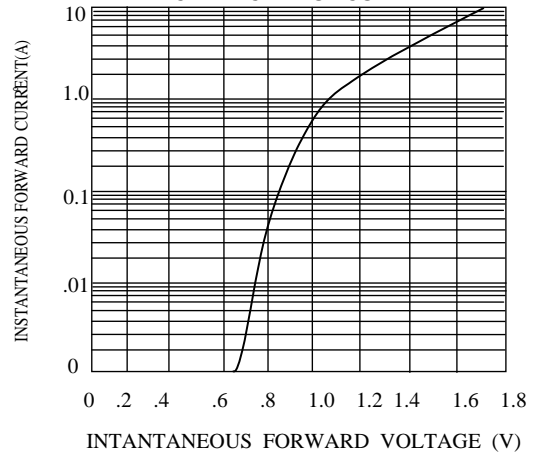


Figure 3
NON-REPETITIVE FORWARD SURGE CURRENT

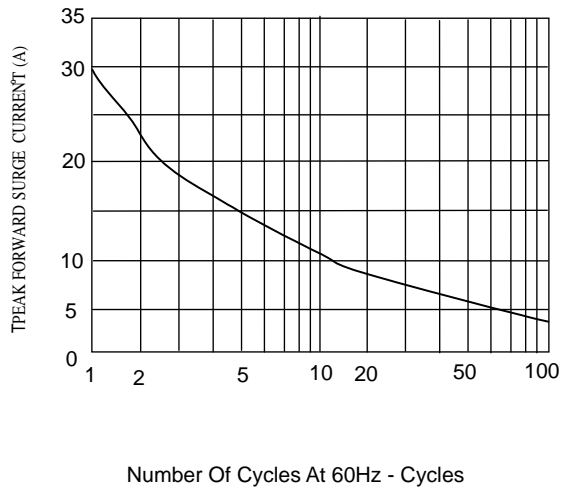


Figure 4
TYPICAL CAPACITANCE

