

Micro Commercial Components



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eatures

- For Surface Mount Application Epoxy meets UL 94 V-0 flammability rating Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Glass Passivated Junction
- Fast Recovery Time For High Efficiency
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature(Tj): -65°C to +150°C
- Storage Temperature(Tstg): -65°C to +150°C
- Maximum Thermal Resistance(RthJA): 75°C/W*

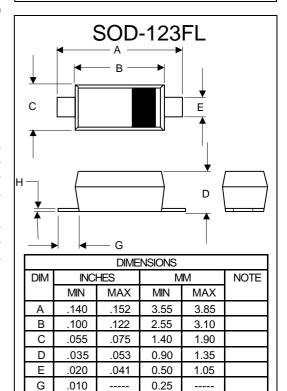
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking
FSM11PL	F1	Voltage 50V	35V	Voltage 50V
FSM12PL	F2	100V	70V	100V
FSM13PL	F3	200V	140V	200V
FSM14PL	F4	400V	280V	400V
FSM15PL	F5	600V	420V	600V
FSM16PL	F6	800V	560V	800V
FSM17PL	F7	1000V	700V	1000V

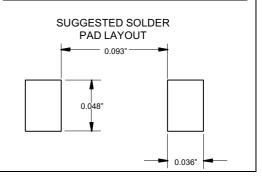
Electrical Characteristics @ 25 $^\circ$ C Unless Otherwise Specified

Average Forward	I _{F(AV)}	1.0 A	T _L = 110℃
Current	IF(AV)	1.0 /	12 - 110 0
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	5.0μA 100uA	T _A = 25℃ Ta=55℃
Maximum Reverse Recovery Time FSM11PL-14PL FSM15PL FSM16PL-17PL	Trr	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _π =0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

FSM11PL THRU FSM17PL

1.0 Amp Fast **Recovery Rectifier** 50 to 1000 Volts





.25

.010

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*6.0mm² copper pads to each terminal

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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FSM11PL-FSM17PL



Figure 1

TINSTANTANEOUS REVERSE CURRENT (uA)

Typical Reverse Characteristics 100 10 4.0 TJ=100 °C 1.0 0.4 0.1 0.04 0.01 120 140 0 20 40 60 80 100 PERCENT OF PATED PEAK REVERSE VOLTAGE,(%)

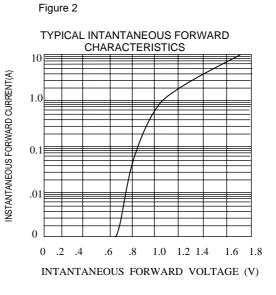
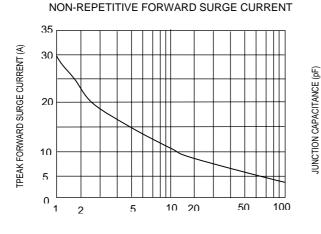


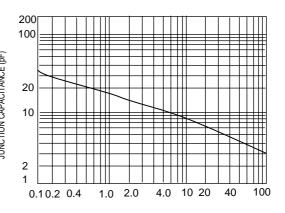
Figure 3

Figure 4



Number Of Cycles At 60Hz - Cycles

TYPICAL CAPACITANCE



REVERSE VOLTAGE,(V)

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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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