

Micro Commercial Components

Features

- For Surface Mount Applications
- Low Power Loss, High Efficiency
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates Compliant. See ordering information)

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Fax:

- Welding Iron Temp:350°C for 3s max.
- Storage Condition: Less than 30°C,RH<70%

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 75°C/W Junction To Ambient.

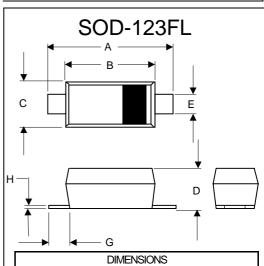
MCC		Maximum	Maximum	Maximum			
Part	Device	Recurrent	RMS	DC			
Number	Marking	Peak Reverse	Voltage	Blocking			
	_	Voltage	-	Voltage			
SFM11PL	S1	50V	35V	50V			
SFM12PL	S2	100V	70V	100V			
SFM13PL	S3	150V	105V	150V			
SFM14PL	S4	200V	140V	200V			
SFM15PL	S5	300V	210V	300V			
SFM16PL	S6	400V	280V	400V			
SFM17PL	S7	500V	350V	500V			
SFM18PL	S8	600V	420V	600V			

Electrical Characteristics @ 25°C Unless Otherwise Specified

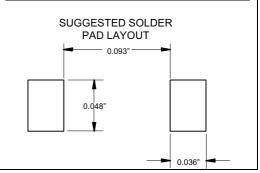
			-
Average Forward	I _{F(AV)}	1.0A	T _a = 50°C
Current			
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
SFM11PL-14PL	V _F	.95V	I _{FM} = 1.0A;
SFM15PL-16PL		1.25V	T _a = 25°C
SFM17PL-18PL		1.70V	-
Maximum DC			
Reverse Current At	I _R	5μΑ	Ta = 25°C
Rated DC Blocking		100μΑ	Ta = 100°C
Voltage			
Maximum Reverse			I _F =0.5A, I _R =1.0A,
Recovery Time	T _{rr}	35ns	I _{rr} =0.25A
Typical Junction	C	10pF	Measured at
Capacitance	CJ	10pF	1.0MHz, V _R =4.0V



1 Amp Super Fast Recovery Silicon Rectifier 50 to 600 Volts



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
А	.140	.152	3.55	3.85	
В	.100	.122	2.55	3.10	
С	.055	.075	1.40	1.90	
D	.035	.053	0.90	1.35	
Е	.020	.041	0.50	1.05	
G	.010		0.25		
Н		.010		.25	



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

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SFM11PL THRU SFM18PL



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RATING AND CHARACTERISTIC CURVES

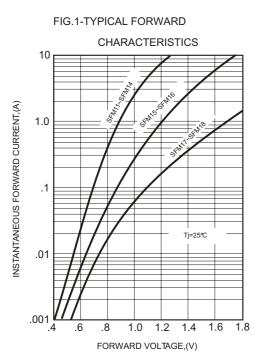
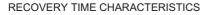
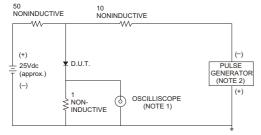
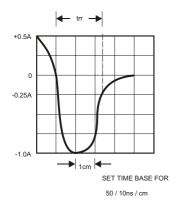


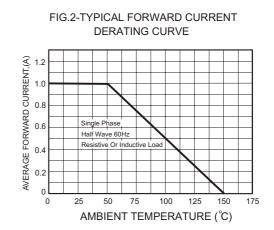
FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

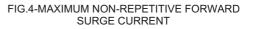


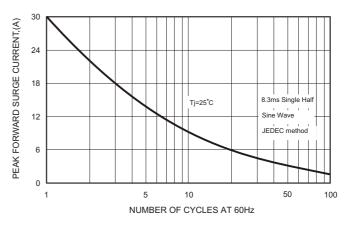


NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF. 2. Rise Time= 10ns max., Source Impedance= 50 ohms.

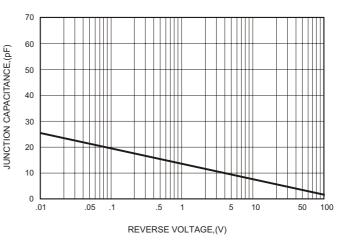












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Ordering Information :

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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