



Micro Commercial Components



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SFM11PL
THRU
SFM18PL

Features

- For Surface Mount Applications
Low Power Loss, High Efficiency
High Temp Soldering: 260°C for 10 Seconds At Terminals
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)
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.

Table with 5 columns: MCC Part Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include SFM11PL through SFM18PL.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward Current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Maximum Reverse Recovery Time, and Typical Junction Capacitance.

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

1 Amp Super Fast Recovery Silicon Rectifier 50 to 600 Volts

SOD-123FL

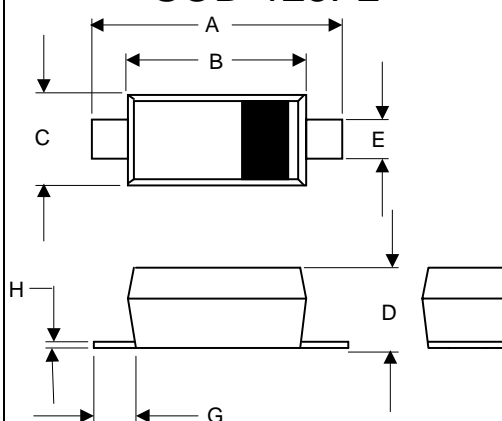
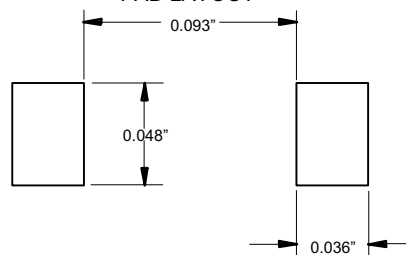


Table with 4 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A through H.

SUGGESTED SOLDER PAD LAYOUT



SFM11PL THRU SFM18PL

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

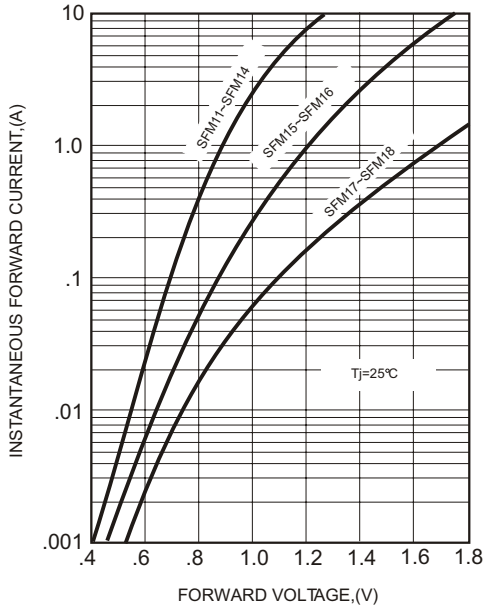


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

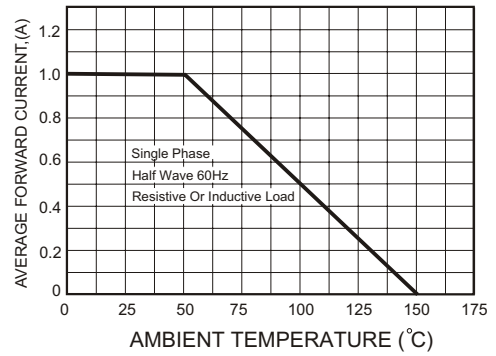
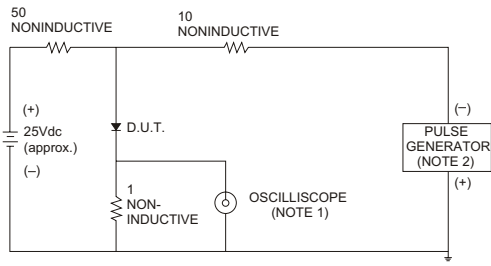


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

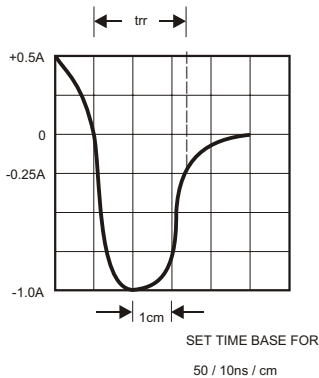


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

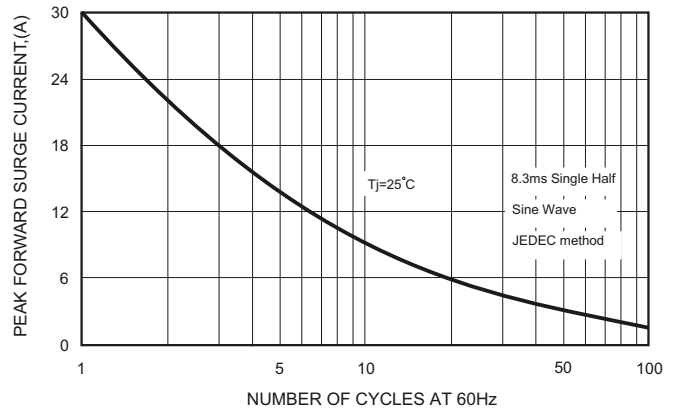
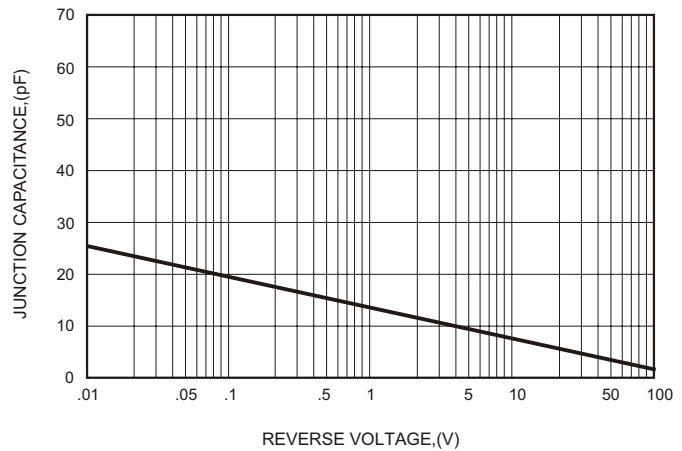


FIG.5-TYPICAL JUNCTION CAPACITANCE





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Ordering Information :

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

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