



Micro Commercial Components



Micro Commercial Components
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SF11
Thru
SF18

Features

- Fast Switching Speed
Marking : Type Number
Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Halogen free available upon request by adding suffix "-HF"

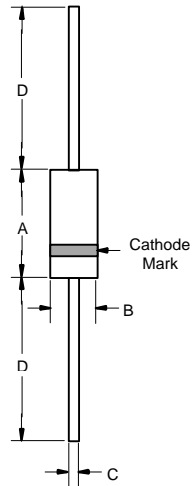
Maximum Ratings

- Operating Temperature: -55°C to +125°C
Storage Temperature: -55°C to +150°C
Typical Thermal Resistance: 50.0°C/W Junction To Ambient

Table with 4 columns: MCC Part Number, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include SF11 through SF18.

1.0 Amp Super Fast
Recovery Rectifiers
50 to 600 Volts

DO-41



Electrical Characteristics @ 25°C Unless Otherwise Specified

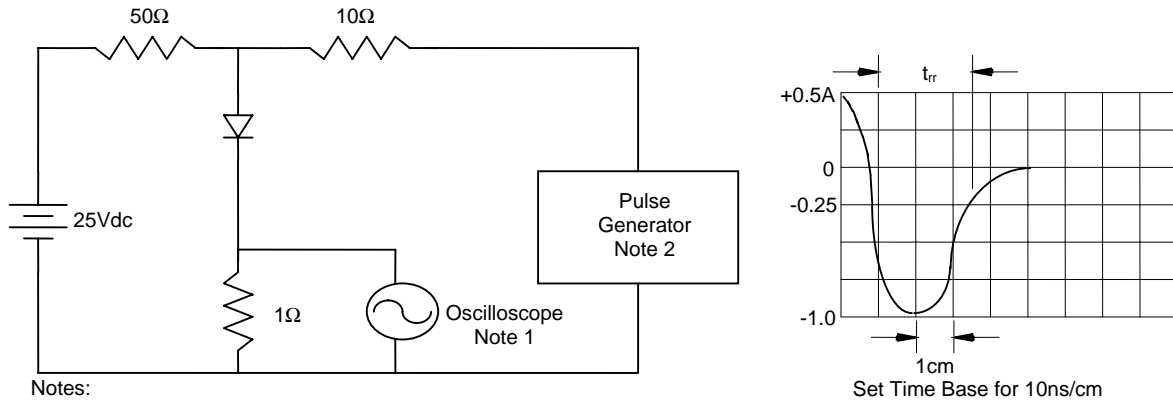
Table with 4 columns: Parameter, Symbol, Value, and Test Conditions. Rows include Average Forward Current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Maximum Reverse Recovery Time, and Typical Junction Capacitance.

Table titled 'DIMENSIONS' with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows include dimensions A, B, C, and D.

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

SF11 thru SF18

Figure 1
Reverse Recovery Time Characteristic And Test Circuit Diagram



- Notes:
1. Rise Time = 7ns max.
Input impedance = 1 megohm, 22pF
 2. Rise Time = 10ns max.
Source impedance = 50 ohms
 3. Resistors are non-inductive

Figure 2
Peak Forward Surge Current

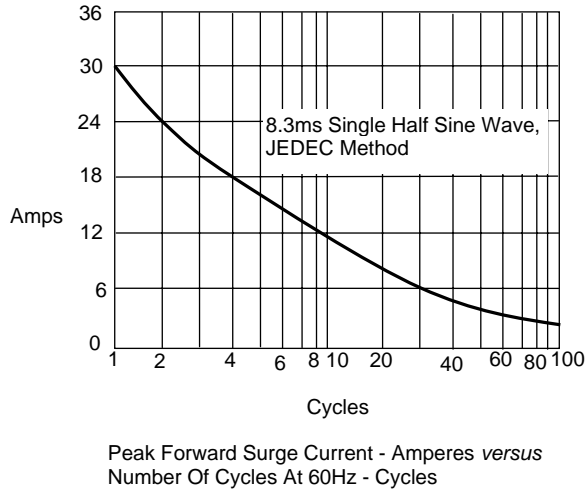
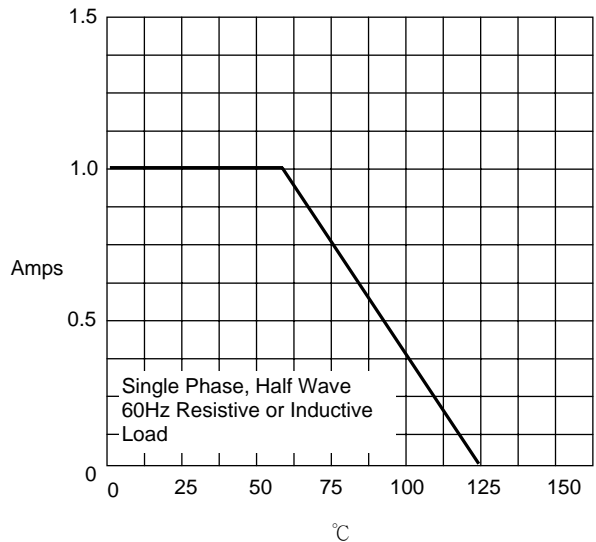


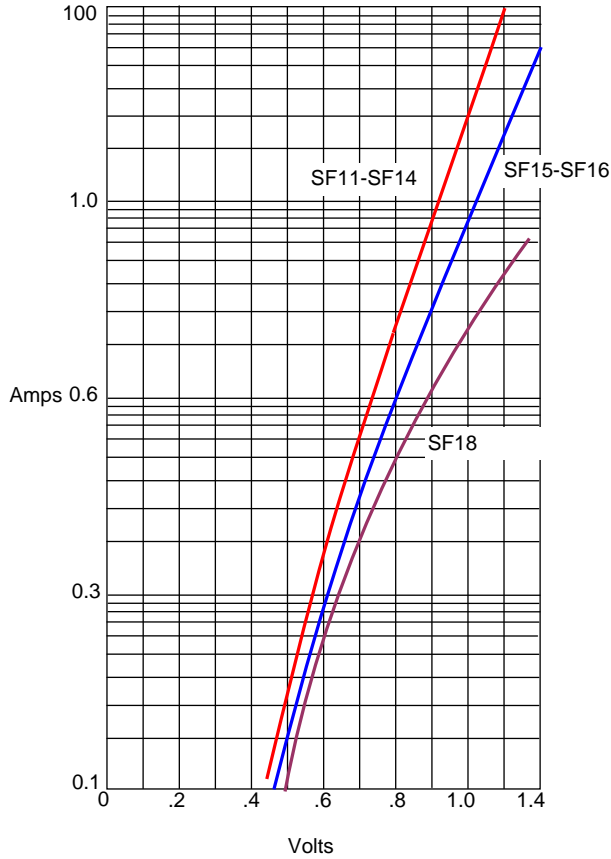
Figure 3
Maximum Average Forward Current Rating



Average Forward Rectified Current Per Leg - Amperes versus Ambient Temperature - °C

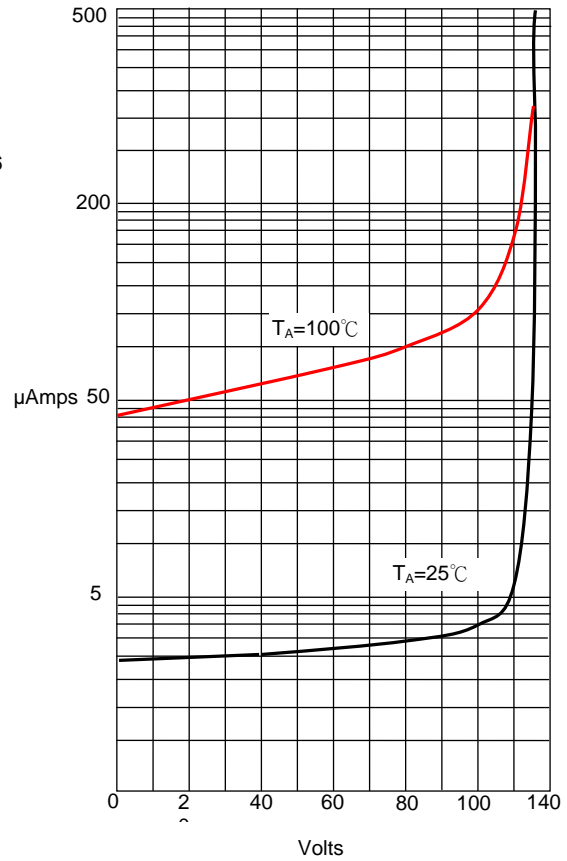
SF11 thru SF18

Figure 4
Typical Junction Characteristics



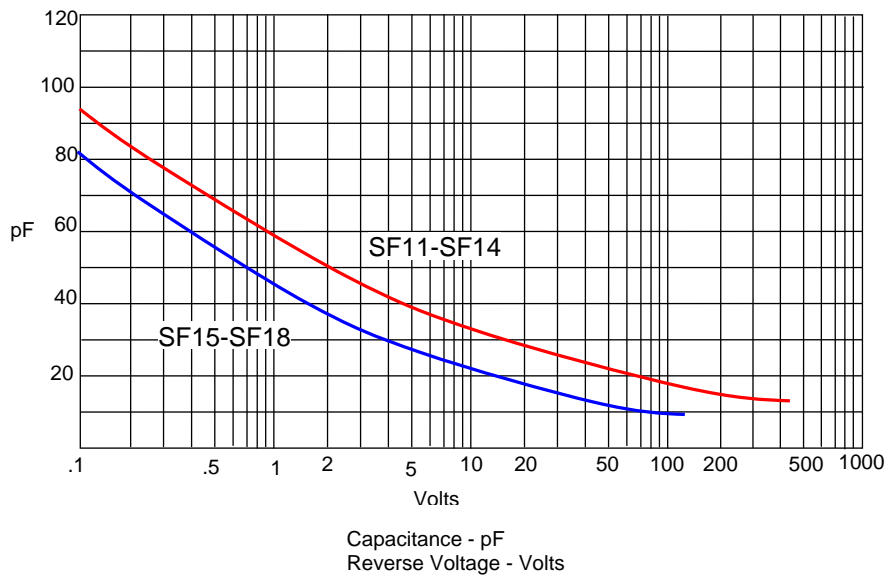
Instantaneous Forward Current -Amperes versus
Instantaneous Forward Voltage - Volts

Figure 5
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - %Volts

Figure 6
Typical Junction Characteristics



Capacitance - pF
Reverse Voltage - Volts



TM

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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

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