



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

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.

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.

1.0 Amp Super Fast
Recovery Rectifiers
50 to 600 Volts

DO-41

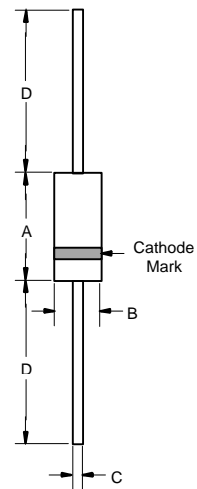
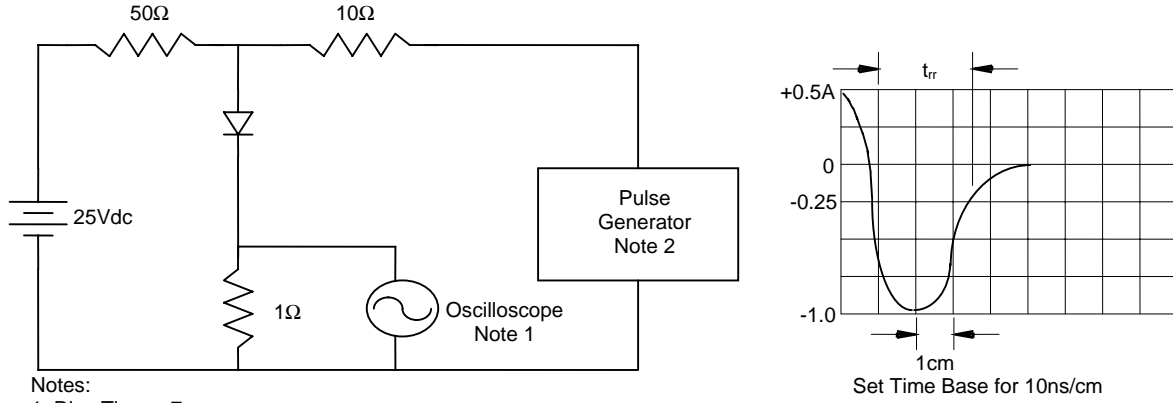


Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows include dimensions A, B, C, and D.

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

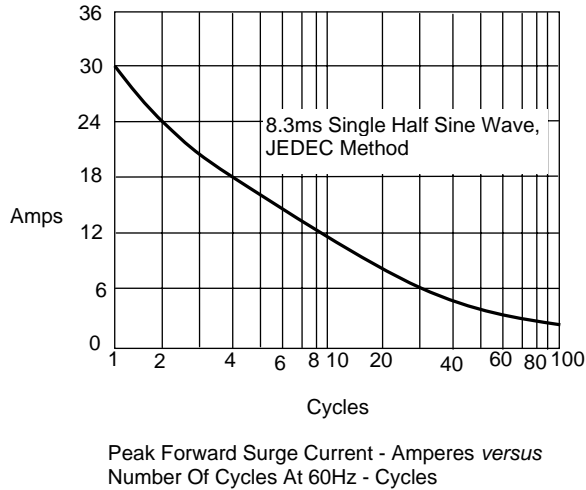
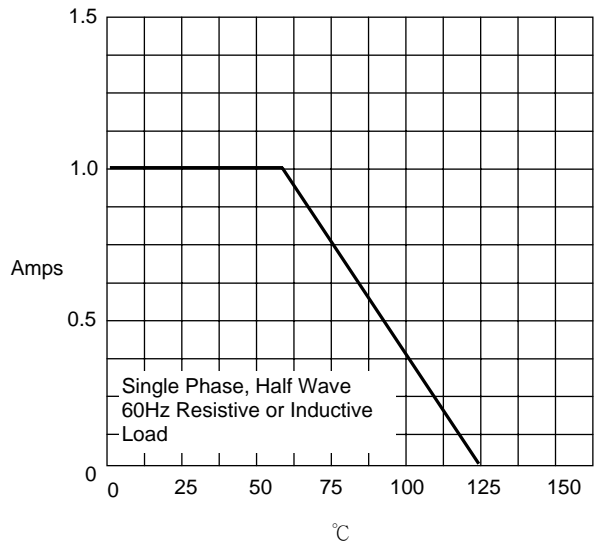


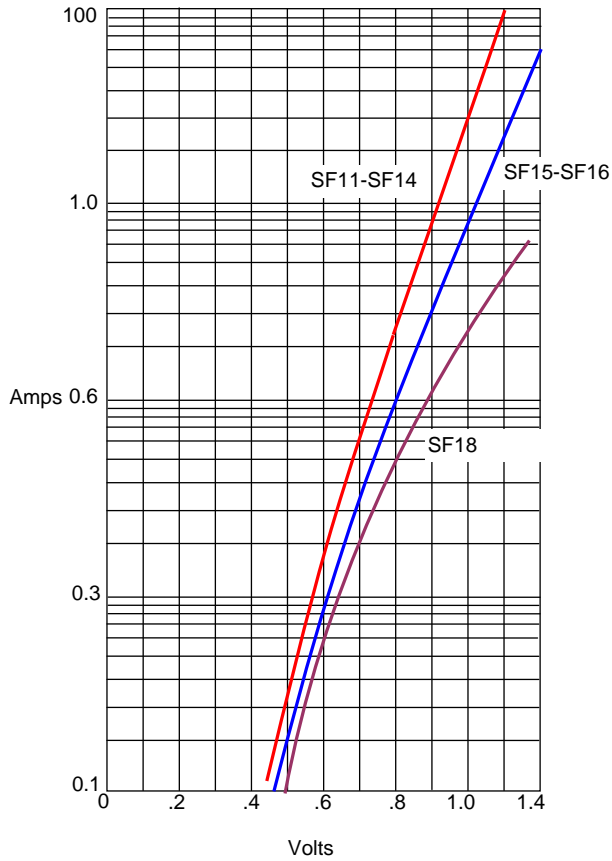
Figure 3
Maximum Average Forward Current Rating



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

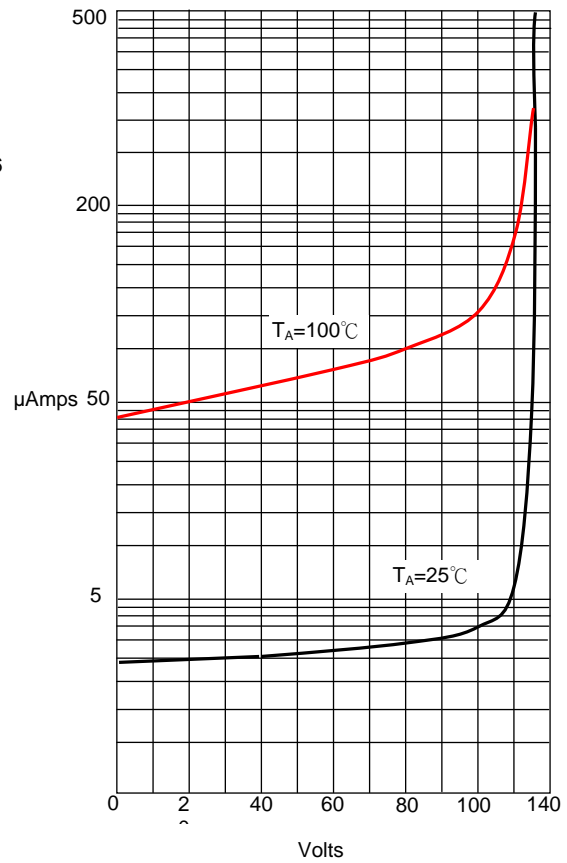
SF11 thru SF18

Figure 4
Typical Junction Characteristics



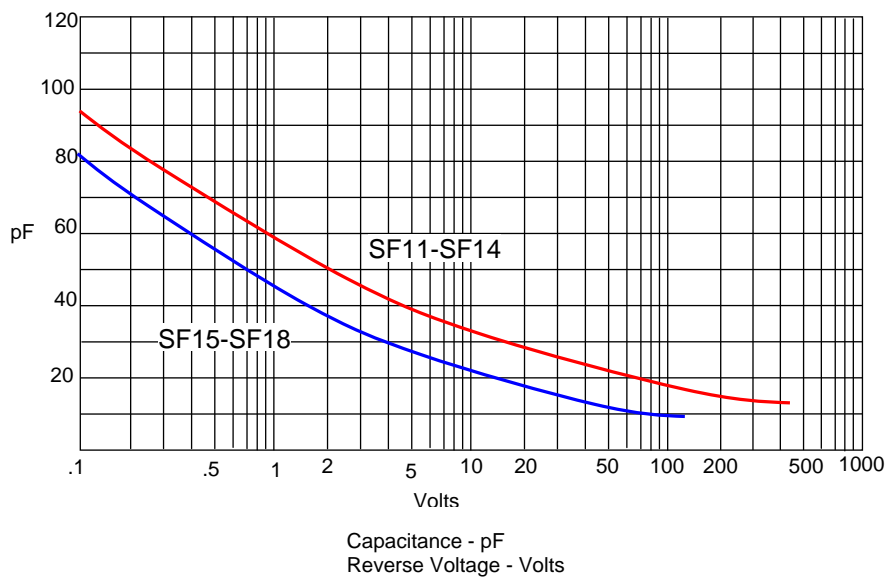
Instantaneous Forward Current -Amperes versus
Instantaneous Forward Voltage - Volts

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



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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

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