



Micro Commercial Components



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SF61
THRU
SF66

6.0 Amp Super Fast
Rectifier
50 to 400 Volts

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS 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"
High current capability, High reliability
Low forward voltage drop
High surge current capability

Maximum Ratings

Operating Temperature: -65 to +125
Storage Temperature: -65 to +150
For capacitive load, derate current by 20%

Table with 4 columns: MCC Part Number, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include SF61 through SF66.

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, Typical Junction Capacitance, and Maximum Reverse Recovery Time.

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.
2. Pulse Test: Pulse width 300 usec, Duty cycle 1%.

DO-201AD

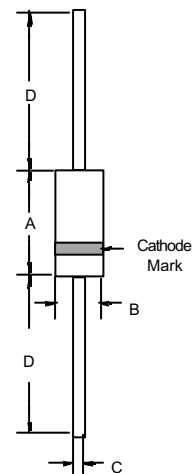
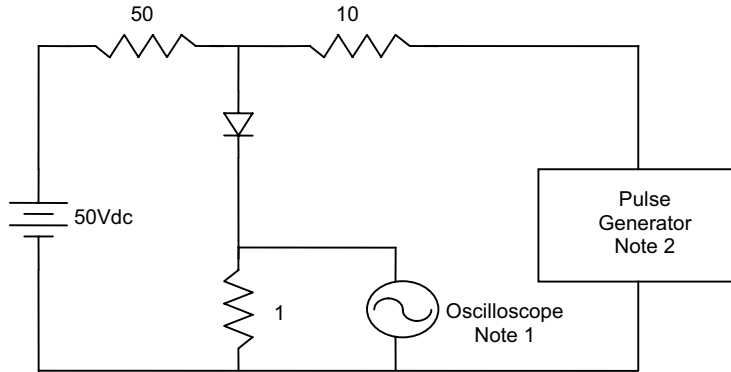


Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C, D.

SF61 thru SF66

Figure1
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

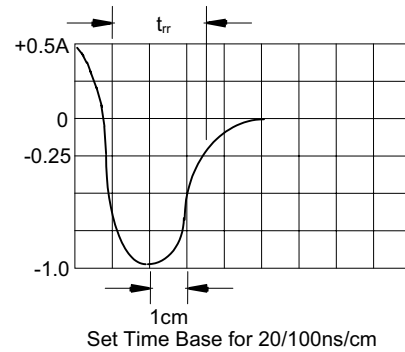


Figure 2
Forward Derating Curve

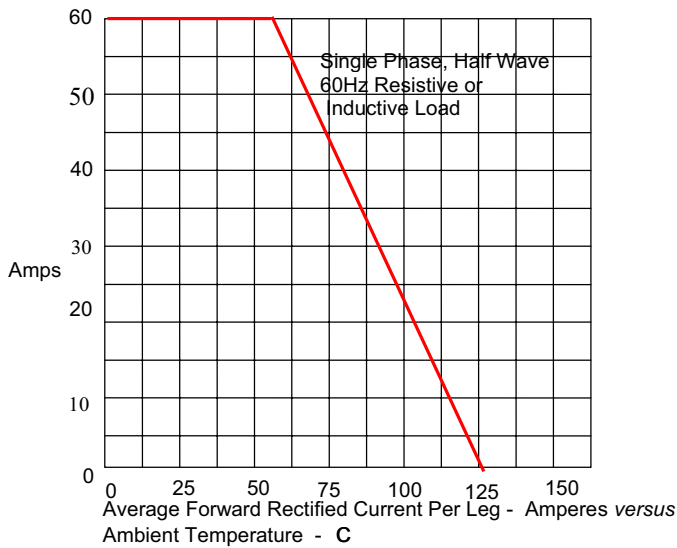
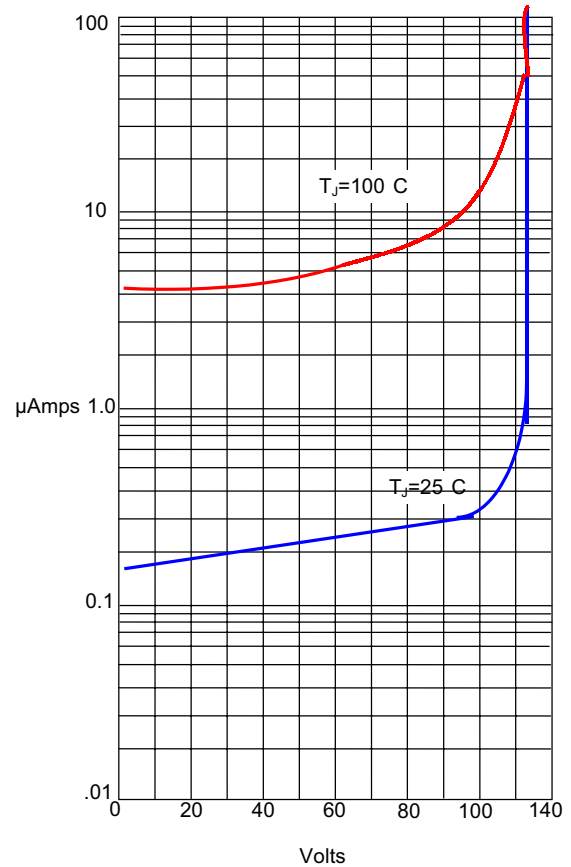


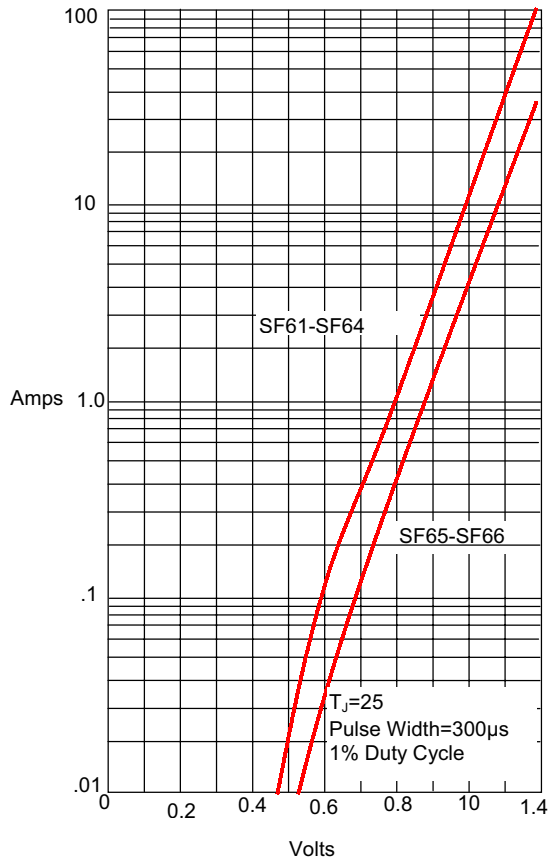
Figure 3
Typical Reverse Characteristics



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

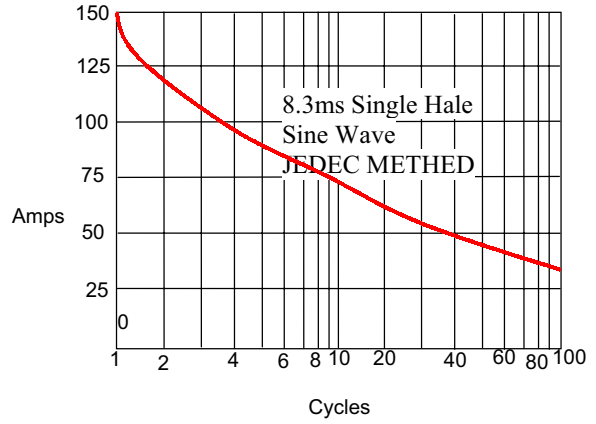
SF61 thru SF66

Figure 4
Typical Forward Characteristics



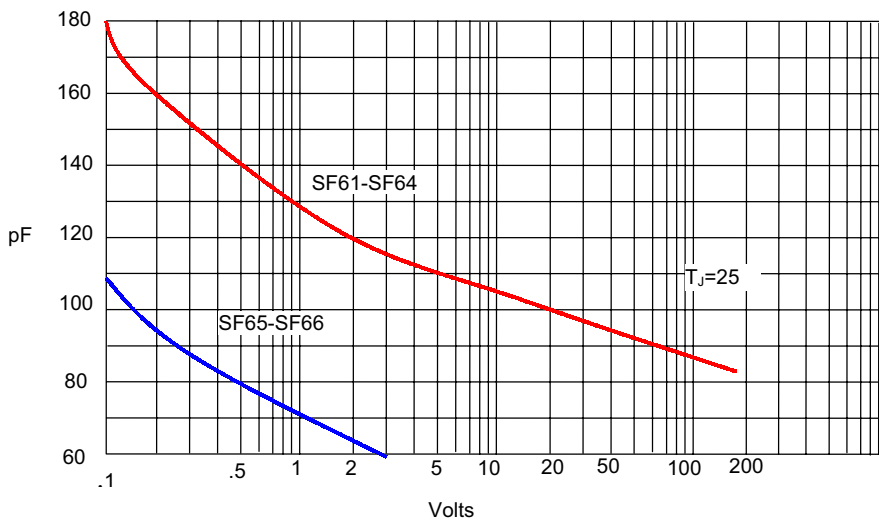
Instantaneous Forward Current - Amperes versus Forward Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 6
Typical Junction Capacitance



Junction Capacitance - pF Reverse Voltage - Volts



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

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

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