



Micro Commercial Components



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FR301
THRU
FR307

Features

- Halogen free available upon request by adding suffix "-HF"
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Low Forward Voltage Drop and High Current Capability
Fast Switching Speed For High Efficiency
Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include FR301 through FR307.

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 At Rated DC Blocking Voltage, Maximum Reverse Recovery Time, Typical Junction Capacitance.

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

3 Amp Fast Recovery Rectifier
50 to 1000 Volts

DO-201AD

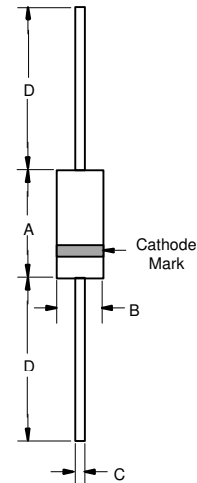
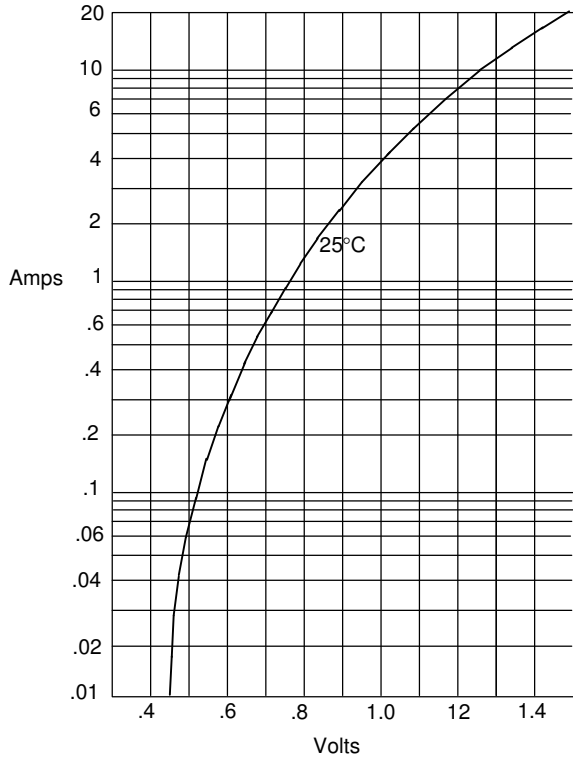


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A, B, C, and D.

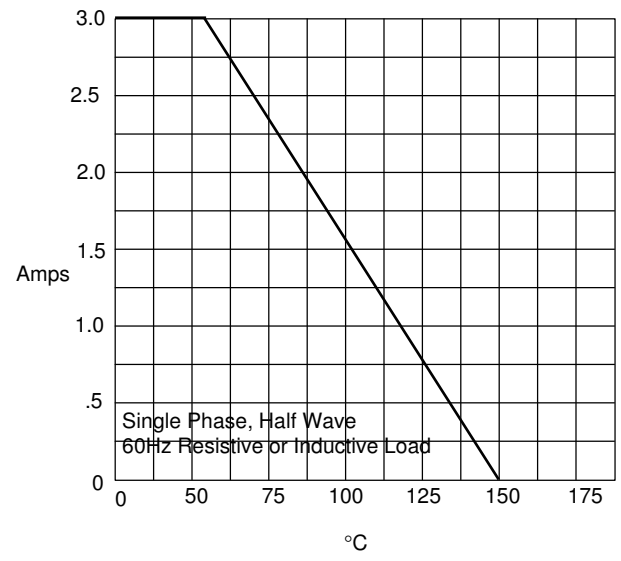
FR301 thru FR307

Figure 1  
 Typical Forward Characteristics



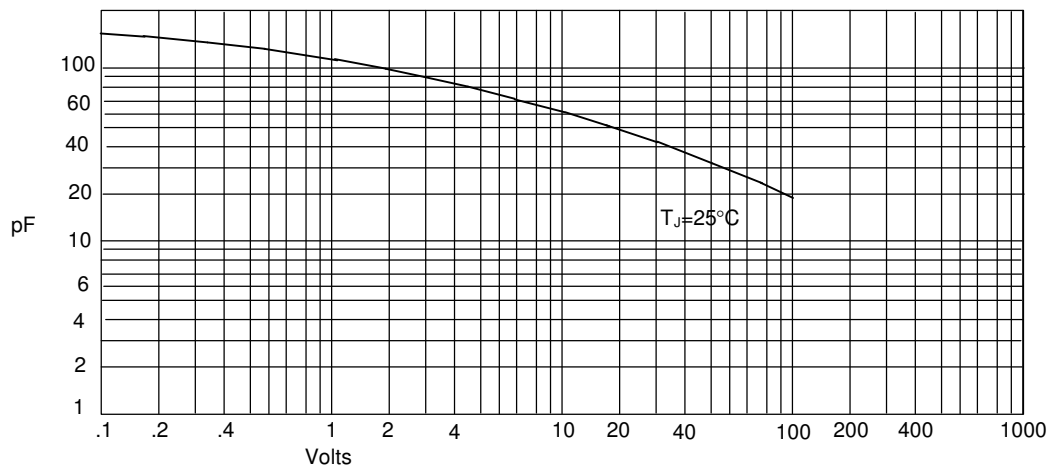
Instantaneous Forward Current - Amperes *versus*  
 Instantaneous Forward Voltage - Volts

Figure 2  
 Forward Derating Curve

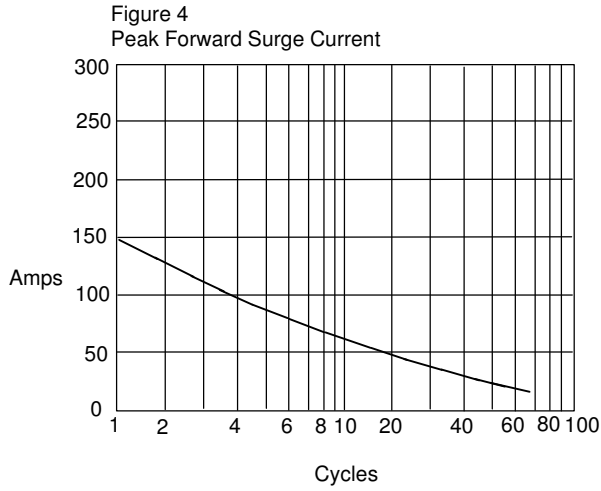


Average Forward Rectified Current - Amperes *versus*  
 Ambient Temperature - °C

Figure 3  
 Junction Capacitance

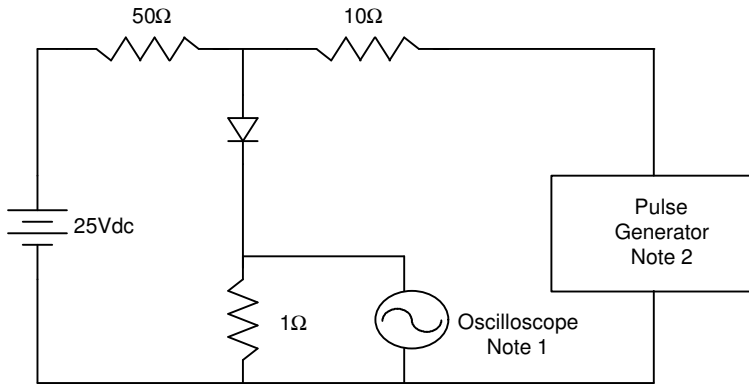


Junction Capacitance - pF *versus*  
 Reverse Voltage - Volts

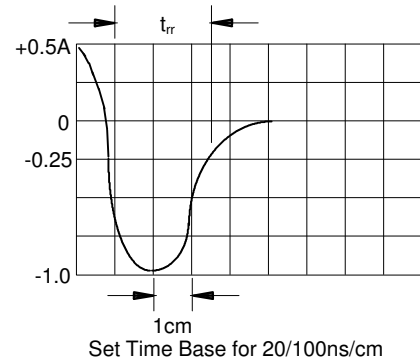


Peak Forward Surge Current - Amperes versus  
Number Of Cycles At 60Hz - Cycles

Figure 5  
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





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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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