



Micro Commercial Components



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US2A
THRU
US2M

Features

- Glass Passivated Chip
Super Fast Switching For High Efficiency
Low Forward Voltage Drop And High Current Capability
Low Reverse Leakage Current
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

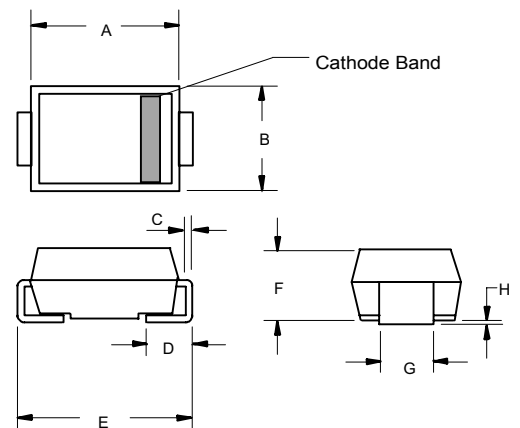
Maximum Ratings

- Operating Temperature: -50°C to +150°C
Storage Temperature: -50°C to +150°C
Maximum Thermal Resistance; 20°C/W Junction To Lead

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include US2A through US2M.

2 Amp Ultra Fast Rectifier
50 to 1000 Volts

DO-214AA (SMB) (LEAD FRAME)

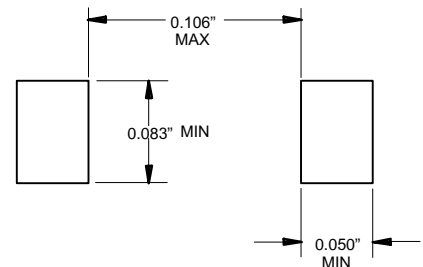


Electrical Characteristics @ 25°C Unless Otherwise Specified

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 with 5 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows include dimensions A through H.

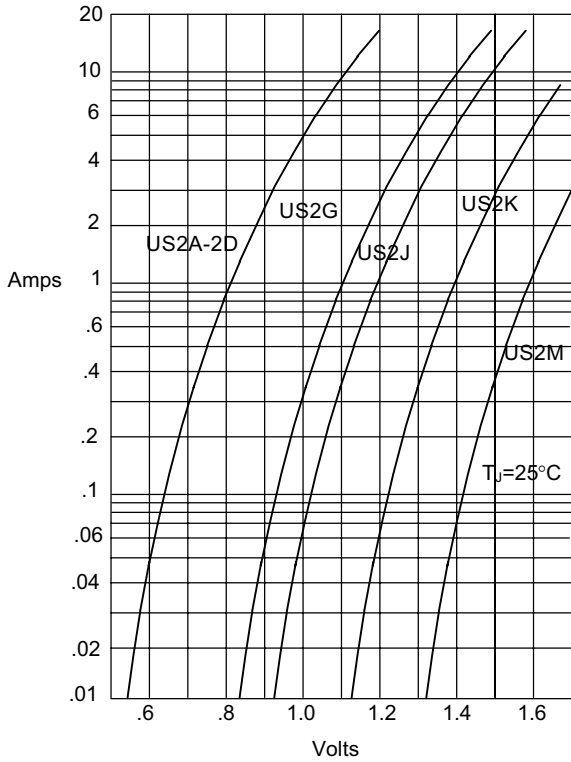
SUGGESTED SOLDER PAD LAYOUT



\*Pulse test: Pulse width 300 µsec, Duty cycle 1%
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

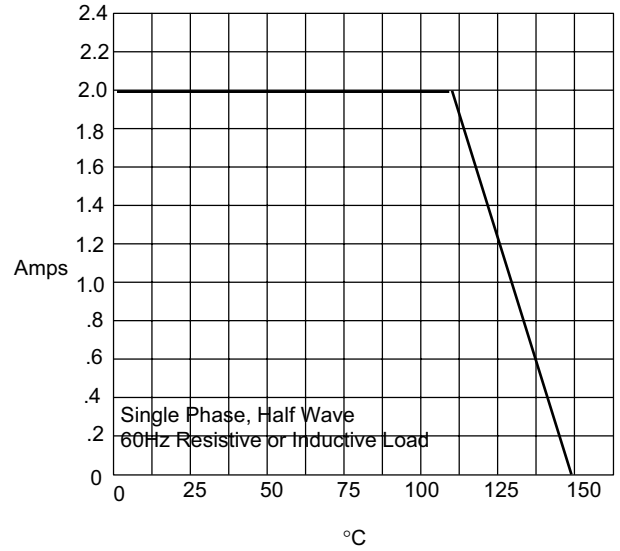
# US2A thru US2M

Figure 1  
Typical Forward Characteristics



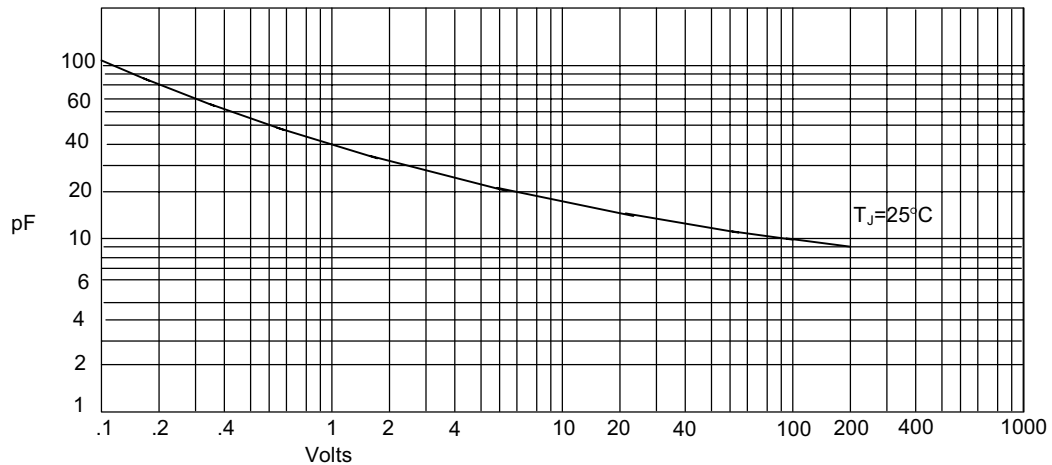
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Lead Temperature -  $^\circ\text{C}$

Figure 3  
Junction Capacitance



Junction Capacitance - pF versus  
Reverse Voltage - Volts

# US2A thru US2M

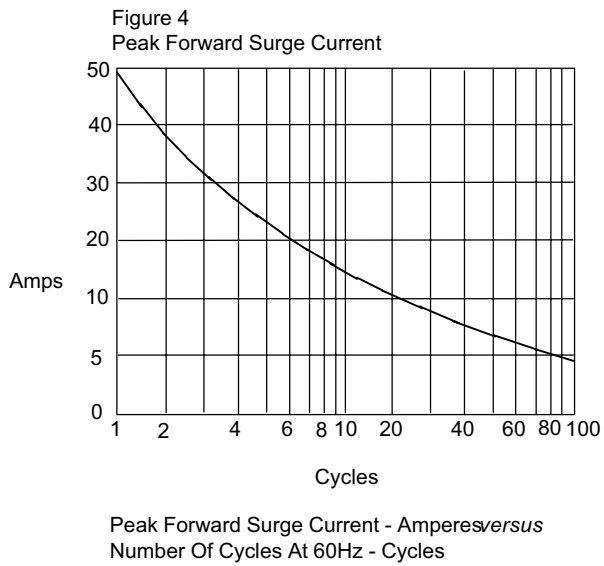
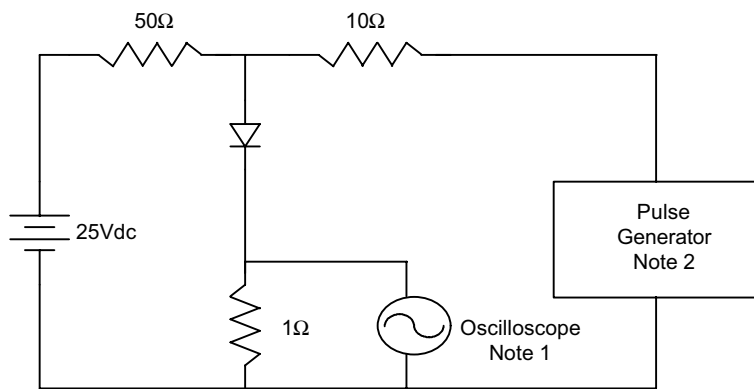
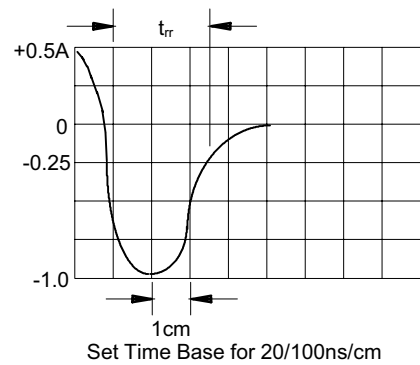


Figure 5  
Reverse Recovery Time Characteristic And Test Circuit Diagram



- 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





TM

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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