

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Super Fast Recovery Time For High Efficiency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)

## **Maximum Ratings**

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Typical Thermal Resistance(Note 3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 75°C/W Junction to Ambient

MC0 Part Nur		Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
UF10	с С	UF1Q	1200V	840V	1200V

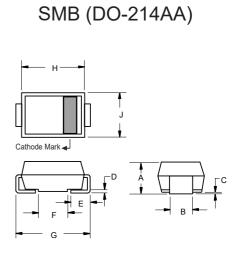
## Electrical Characteristics @ 25°C Unless Otherwise Specified

I <sub>F(AV)</sub>	1.0A	T <sub>L</sub> =115⁰C	
I <sub>FSM</sub>	30A	8.3ms,Half Sine	
V <sub>F</sub>	1.90V	I <sub>FM</sub> =1.0A; T <sub>J</sub> =25⁰C*	
I <sub>R</sub>	5.0µА 30µА	Tյ=25⁰C; Tյ=125⁰C	
t <sub>rr</sub>	75ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; Irr=0.25A	
CJ	45pF	Measured at 1.0MHz; V <sub>R</sub> =4.0V	
	I <sub>FSM</sub> V <sub>F</sub> I <sub>R</sub>	$I_{FSM} = 30A$ $V_F = 1.90V$ $I_R = 5.0\mu A$ $30\mu A$ $t_{rr} = 75ns$	

\*Pulse Test: Pulse Width 200 µsec, Duty Cycle 2% Note :

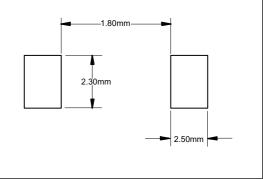
High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.
 Halogen free "Green"products are defined as those which contain <900ppm bromine,</li>
 <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</li>
 Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

# 1 Amp Ultra Fast Rectifier 1200 Volts



	DIMENSIONS						
DIM	INC	HES	MM		NOTE		
DIN	MIN	MAX	MIN	MAX	NOTE		
Α	0.079	0.103	2.00	2.62			
В	0.075	0.087	1.91	2.21			
С	0.002	0.008	0.05	0.20			
D	0.006	0.012	0.15	0.31			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.200	0.220	5.08	5.59			
Н	0.160	0.191	4.06	4.85			
J	0.130	0.155	3.30	3.94			

#### Suggested Solder Pad Layout





# **Curve Characteristics**

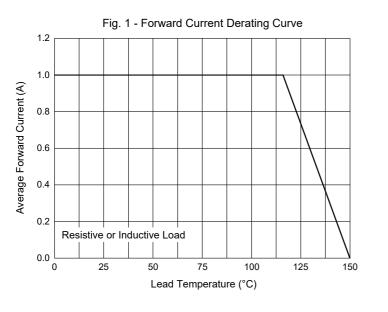
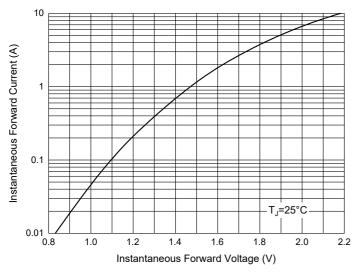
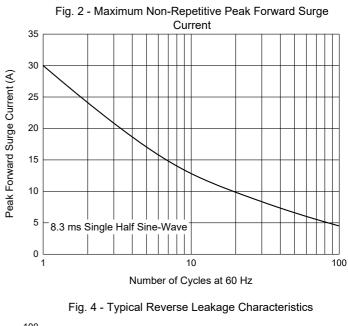
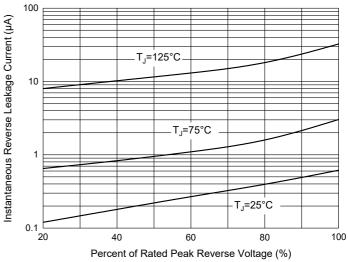


Fig. 3 - Typical Instantaneous Forward Characteristics









# **Ordering Information**

Device	Packing
UF1Q-TP	Tape&Reel: 3Kpcs/Reel

#### \*\*\*IMPORTANT NOTICE\*\*\*

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

## \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

#### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

单击下面可查看定价,库存,交付和生命周期等信息

>>MCC(美微科)