

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## **US1ML**

## **Features**

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Glass passivated chip
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 25K/W Junction To Lead

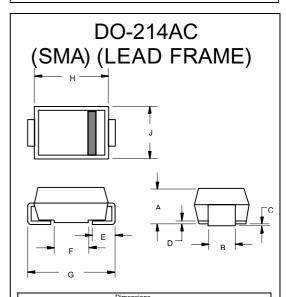
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
US1ML	US1ML	1000V	700V	1000V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

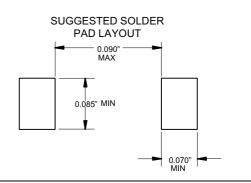
Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>L</sub> = 110°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.5V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μA 100μA	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C
Maximum Reverse Recovery Time	T <sub>rr</sub>	120ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A
Typical Junction Capacitance	С	8pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

# 1 Amp Ultra Fast Rectifier 1000 Volts



Dimensions							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.079	.096	2.00	2.44			
В	.050	.064	1.27	1.63			
С	.002	.008	.05	.20			
D		.02		.51			
E	.030	.060	.76	1.52			
F	.065	.091	1.65	2.32			
G	.189	.220	4.80	5.59			
Η	.157	.181	4.00	4.60			
J	.090	.115	2.25	2.92			
				•			





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### Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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

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