

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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UF1A **THRU** UF1M

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

- Glass passivated junction
 Easy pick and place
 High Temp Soldering: 260°C for 10 Seconds At Terminals
 Superfast Recovery Times For High Efficiency
 Halogen free available upon request by adding suffix "-HF"

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

MCC	Device	Maximum Maximum		Maximum
Catalog	Marking	Reccurrent RMS		DC
Number		Peak Reverse Voltage		Blocking
		Voltage		Voltage
UF1A	UF1A	50V	35V	50V
UF1B	UF1B	100V	70V	100V
UF1D	UF1D	200V	140V	200V
UF1G	UF1G	400V	280V	400V
UF1J	UF1J	600V	420V	600V
UF1K	UF1K	800V	560V	800V
UF1M	UF1M	1000V	700V	1000V

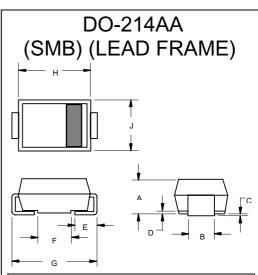
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _L = 100°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
UF1A-D UF1G UF1J-M	V_{F}	1.0V 1.4V 1.7V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 100μΑ	T _A = 25°C T _A = 125°C
Maximum Reverse Recovery Time UF1A-G UF1J-M	T _{rr}	50ns 100ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	С	17pF	Measured at 1.0MHz, V _R =4.0V

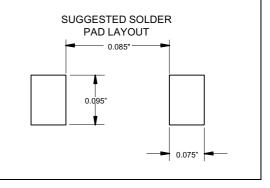
^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

1 Amp Surface Mount **Ultra Fast** Rectifier 50 to 1000 Volts



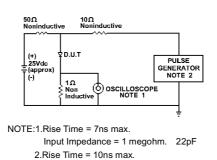
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.083	.096	2.11	2.44		
В	.075	.083	1.91	2.11		
С	.002	.008	.05	.20		
D		.02		.51		
Е	.030	.050	.76	1.27		
F	.065	.091	1.65	2.32		
G	.200	.220	5.08	5.59		
Н	.160	.185	4.06	4.70		
J	.130	.155	3.30	3.94		



UF1A thru UF1M



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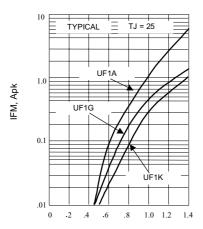
Source Impedance = 50 Ohms

+0.5A

-1.0

SET TIME
BASE FOR
50 ns/cm

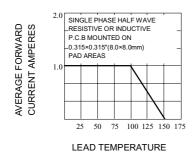
Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



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Fig. 2-FORWARD CHARACTERISTICS

Fig. 3- TYPICAL JUNCTION CAPACITANCE



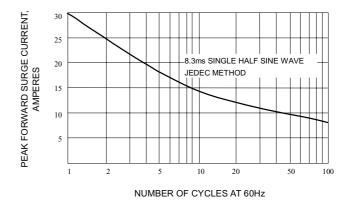


Fig. 4- FORWARD CURRENT DERATING CURVE

Fig. 5-PEAK FORWARD SURGE CURRENT



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Ordering Information:

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

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

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