

Micro Commercial Components



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US2AFL THRU US2MFL

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
- Ultra Fast Switching For High Efficiency
- For Surface Mounted Applications
- Low Forward Voltage Drop And High Current Capability
- Low Reverse Leakage Current
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 20 °C/W Junction To Lead

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
US2AFL	US2A	50V	35V	50V
US2BFL	US2B	100V	70V	100V
US2CFL	US2C	150V	105V	150V
US2DFL	US2D	200V	140V	200V
US2GFL	US2G	400V	280V	400V
US2JFL	US2J	600V	420V	600V
US2KFL	US2K	800V	560V	800V
US2MFL	US2M	1000V	700V	1000V

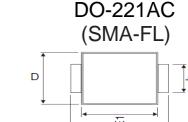
Electrical Characteristics @ 25°C Unless Otherwise Specified

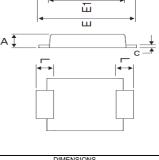
		, <u> </u>	шотшое оросписа
Average Forward	$I_{F(AV)}$	2.0A	T _L = 110°C
Current			
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
US2AFL-2DFL	V_{F}	1.0V	$I_{FM} = 1.0A;$
US2GFL		1.4V	T _J = 25°C
US2JFL-2MFL		1.7V	
Maximum DC			
Reverse Current At	I_R	5uA	T _{.1} = 25°C
Rated DC Blocking		350uA	T _{.1} = 125°C
Voltage		555071	1 J = 120 O
Maximum Reverse			
Recovery Time		50ns	
US2AFL-US2GFL	T_{rr}	75ns	I _F =0.5A, I _R =1.0A,
US2JFL~US2MFL		70113	I _{rr} =0.25A
Typical Junction	-		
Capacitance			
	СJ	28pF	Measured at
		<u>'</u>	1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 sec, Duty cycle 1%

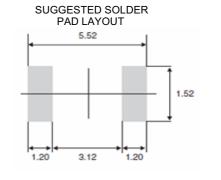
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

2 Amp Ultra Fast Rectifier 50 to 1000 Volts





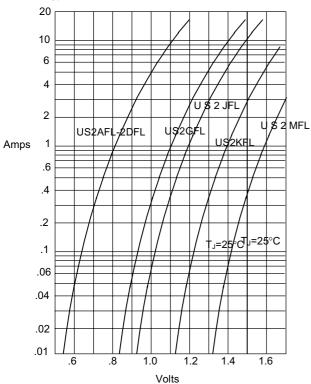
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.035	.047	0.90	1.20	
b	.049	.065	1.25	1.65	
С	.004	.016	0.10	0.40	
D	.089	.116	2.25	2.95	
E	.173	.220	4.40	5.60	
E1	.126	.181	3.20	4.60	
L	.028	.059	0.70	1.50	



US2AFL thru US2MFL

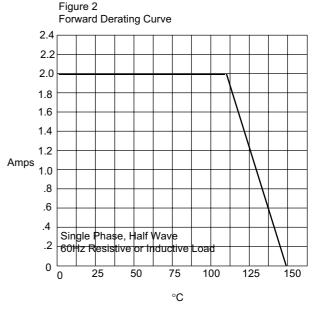
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Figure 1
Typical Forward Characteristics



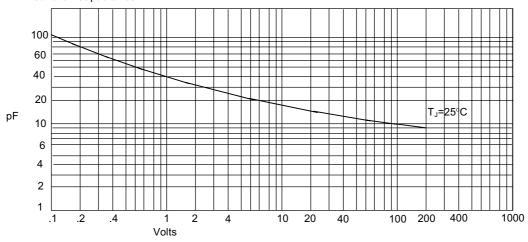
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

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Average Forward Rectified Current - Amperes/ersus Lead Temperature -°C

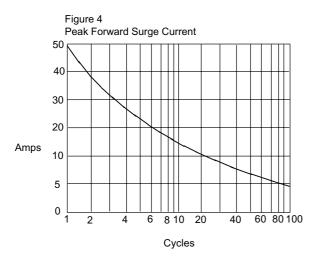




Junction Capacitance - pF*versus* Reverse Voltage - Volts

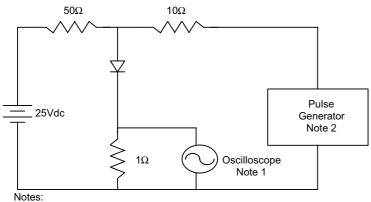
US2AFL thru US2MFL

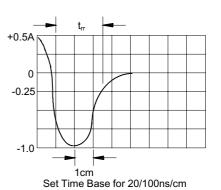




Peak Forward Surge Current - Amperes*versus* Number Of Cycles At 60Hz - Cycles

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram





- 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: 10Kpcs/Reel		

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

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