

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

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

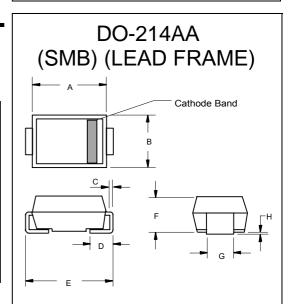
Electrical Characteristics @ 25°C Unless Otherwise Specified

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			
US2A-2D	V_{F}	1.0V	$I_{FM} = 2.0A;$
US2G		1.4V	T _J = 25°C
US2J-2M		1.7V	
Maximum DC Reverse			
Current At Rated DC	I _R	5uA	T _J = 25°C
Blocking Voltage	-10	350uA	T ₁ = 125°C
		330uA	1 J = 123 O
Maximum Reverse			
Recovery Time	_		
US2A-2G	T _{rr}	50ns	$I_F = 0.5A, I_R = 1.0A,$
US2J-2M		100ns	I _{rr} =0.25A
Tomical longities	-	00 5	
Typical Junction	CJ	28pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

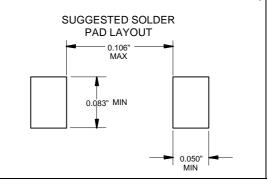
*Pulse test: Pulse width 300 μsec, Duty cycle 1%

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

2 Amp Ultra Fast Rectifier 50 to 1000 Volts



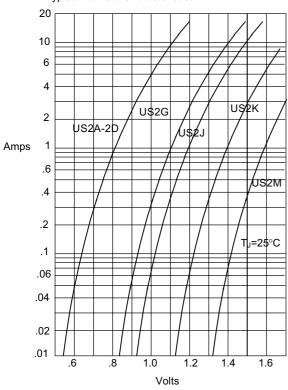
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.160	.180	4.06	4.57	İ
В	.130	.155	3.30	3.94	İ
С	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.205	.220	5.21	5.59	İ
F	.079	.103	2.01	2.62	
G	.077	.087	1.96	2.21	
Н	.002	.008	0.05	0.20	



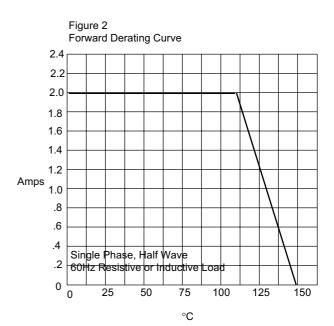
US2A thru US2M



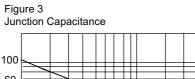
Figure 1 Typical Forward Characteristics

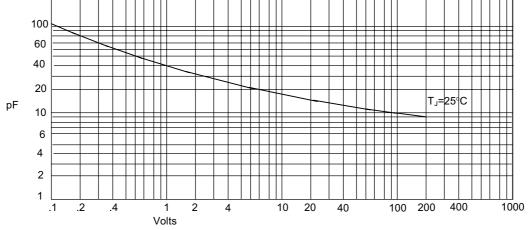


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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

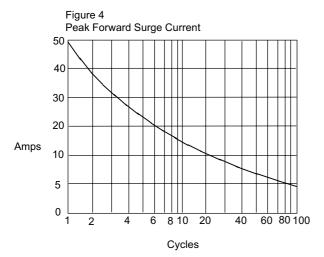




Junction Capacitance - pFversus Reverse Voltage - Volts

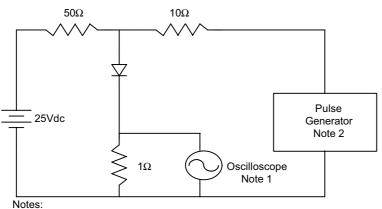
US2A thru US2M

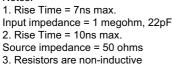


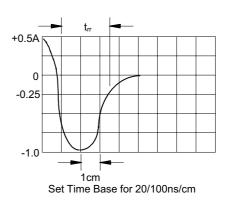


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram









Ordering Information :

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

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