

ROHS

Micro Commercial Components

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US2A THRU US2M

Features

- Halogen free available upon request by adding suffix "-HF"
- 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

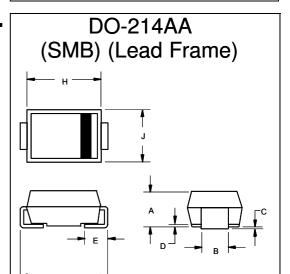
Hectrical Characteristics @25°CUhless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage US2A-2D US2G US2J-2M	V _F	1.0V 1.4V 1.7V	I _{FM} = 2.0A; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5uA 350uA	T _J = 25°C T _J = 125°C
Maximum Reverse Recovery Time US2A-2G US2J-2M	T _{rr}	50ns 75ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	Сл	28pF	Measured at 1.0MHz, V _R =4.0V

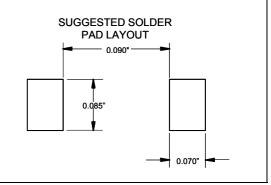
*Pulse test: Pulse width 300 μsec, Duty cycle 1%

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

2 Amp Ultra Fast Rectifier 50 to 1000 Volts



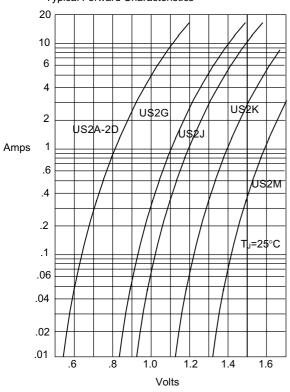
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.075	.095	1.91	2.41		
В	.077	.083	1.96	2.10		
С	.002	.008	.05	.20		
D		.02		.51		
E	.030	.060	.76	1.52		
G	.200	.220	5.08	5.59		
Н	.160	.187	4.06	4.75		
j	.130	.155	3.30	3.94		



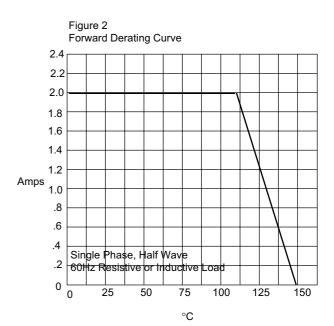
US2A thru US2M



Figure 1
Typical Forward Characteristics

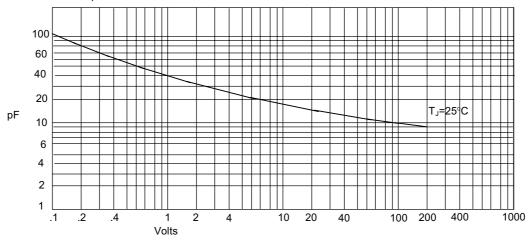


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes*versus* Lead Temperature -°C

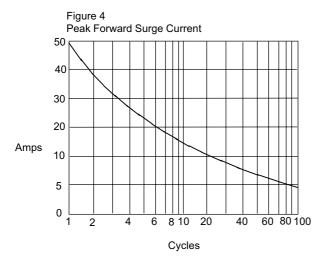




Junction Capacitance - pF*versus* Reverse Voltage - Volts

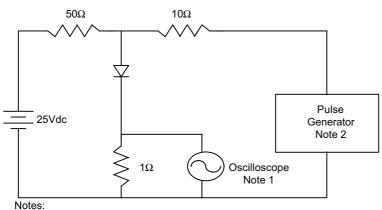
US2A thru US2M

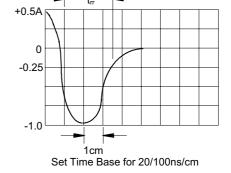




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram





1. Rise Time = 7ns max. Input impedance = 1 megohm, 22pF 2. Rise Time = 10ns max. Source impedance = 50 ohms 3. Resistors are non-inductive



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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