

**Micro Commercial Components** 

# ES2A THRU ES2M

## **Features**

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- · Superfast Recovery Times For High Efficiency

## **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
ES2A	ES2A	50V	35V	50V
ES2B	ES2B	100V	70V	100V
ES2C	ES2C	150V	105V	150V
ES2D	ES2D	200V	140V	200V
ES2G	ES2G	400V	280V	400V
ES2J	ES2J	600V	420V	600V
ES2K	ES2K	800V	560V	800V
ES2M	ES2M	1000V	700V	1000V

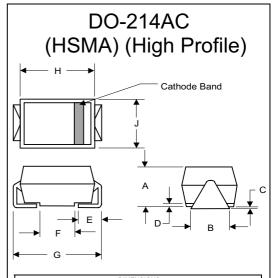
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	2.0A	T <sub>J</sub> = 75°C
Peak Forward Surge	$I_{FSM}$	50A	8.3ms, half sine
Current			·
Maximum			
Instantaneous			
Forward Voltage			
ES2A-D ES2G-J	$V_{F}$	.975V 1.35V	$I_{FM} = 2.0A;$
ES2K-M		1.70V	$T_{J} = 25^{\circ}C^{*}$
Maximum DC			
Reverse Current At	$I_R$	5μΑ	T <sub>.1</sub> = 25°C
Rated DC Blocking		150μΑ	T <sub>J</sub> = 100°C
Voltage			•
Maximum Reverse			
Recovery Time			
ES2A-D ES2G-J	$T_{rr}$	50ns 60ns	$I_F = 0.5A, I_R = 1.0A,$
ES2K-M		100ns	I <sub>rr</sub> =0.25A
Typical Junction	Сл	25pF	Measured at
Capacitance			1.0MHz, V <sub>R</sub> =4.0V

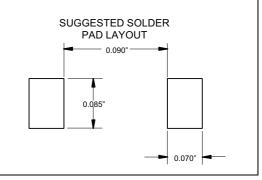
<sup>\*</sup>Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

## 2 Amp Ultra Fast Recovery Silicon Rectifier 50 to 1000 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.078	.116	1.98	2.95		
В	.067	.089	1.70	2.25		
С	.002	.008	.05	.20		
D		.02		.51		
Е	.035	.055	.89	1.40		
F	.065	.096	1.65	2.45		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
J	.100	.112	2.57	2.84		





### **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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