



Micro Commercial Components



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ES2A **THRU** ES₂M

- Halogen free available upon request by adding suffix "-HF" 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
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency

2 Amp Ultra Fast Recovery Silicon Rectifier 50 to 1000 Volts

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

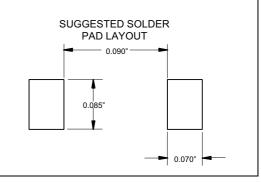
MCC	Device	Maximum Maximum		Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
ES2A	ES2A	50V	35V	50V
ES2B	ES2B	100V	70V	100V
ES2C	ES2C	150V	105V	150V
ES2D	ES2D	200V	140V	200V
ES2G	ES2G	400V	280V	400V
ES2J	ES2J	600V	420V	600V
ES2K	ES2K	800V	560V	800V
ES2M	ES2M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	2.0A	T _J = 75°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous			
Forward Voltage ES2A-D ES2G-J ES2K-M	V_{F}	.975V 1.35V 1.70V	I _{FM} = 2.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 150μΑ	T _J = 25°C T _J = 100°C
Maximum Reverse Recovery Time ES2A-D ES2G-J ES2K-M	T _{rr}	50ns 60ns 100ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	25pF	Measured at 1.0MHz, V _R =4.0V

DO-214AC (HSMA) (High Profile) Cathode Band Е

DIMENSIONS						
	INCHES		MM			
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		
E	.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	,	



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

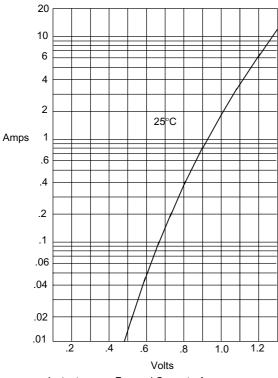
^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

ES2A thru ES2M

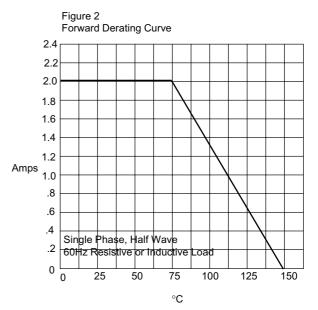


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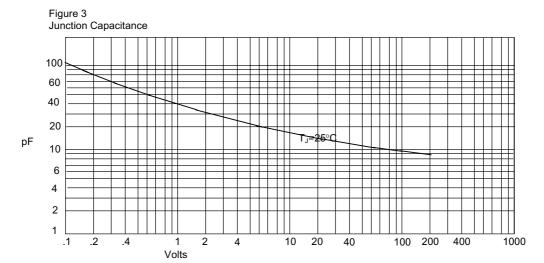




Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C

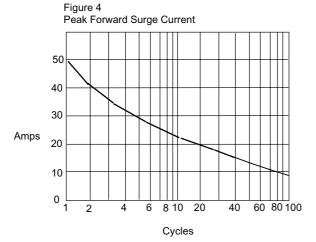


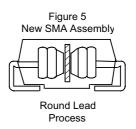
Junction Capacitance - pF*versus* Reverse Voltage - Volts

ES2A thru ES2M



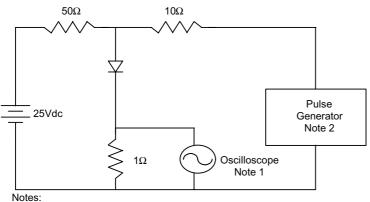
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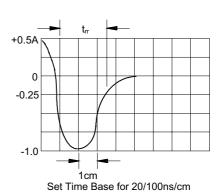




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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



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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