

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NOT RECOMMENDED FOR NEW DESIGNS **USE ES2A-LTP~ES1J-LTP SERIES**



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

DO-214AC

aximum 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	$I_{F(AV)}$	2.0A	T _J = 75°C
Current			
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
ES2A-D	V_{F}	.975V	$I_{FM} = 2.0A;$
ES2G-J ES2K-M	•	1.35V 1.70V	$T_{\rm J} = 25^{\circ}{\rm C}^{*}$
Maximum DC			,
Reverse Current At	I_R	5μΑ	T _J = 25°C
Rated DC Blocking		150µA	T _J = 100°C
Voltage		. оор	1, 100 0
Maximum Reverse			
Recovery Time			
S2A-D	T _{rr}	50ns	$I_{E}=0.5A, I_{R}=1.0A,$
ES2G-J ES2K-M	- 11	60ns 100ns	I _{rr} =0.25A
Typical Junction	C _J	25pF	Measured at
Capacitance	OJ	2001	1.0MHz, V _R =4.0V
Capacitance			1.01010Z, VR-4.0V

⁽HSMA) (High Profile) Cathode Band Е INCHES MM .205 .160 SUGGESTED SOLDER PAD LAYOUT 0.090" 0.070"

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

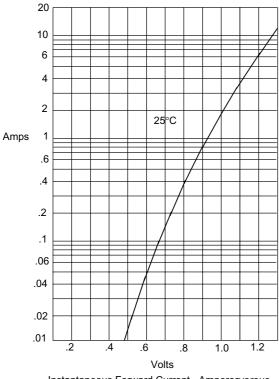
^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

ES2A thru ES2M

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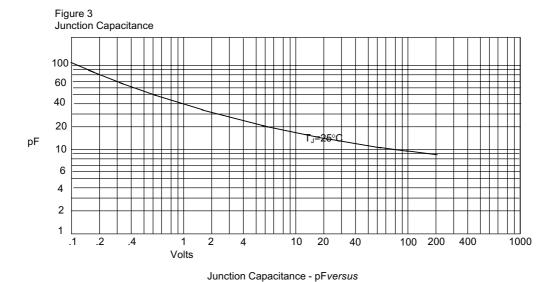
2.4 2.2 2.0 1.8 1.6 1.4 Amps 1.0 .8 .6 Single Phase, Half Wave .2 60Hz Resistive or Inductive Load 75 100 125 150 °C

Figure 2

Forward Derating Curve

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

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

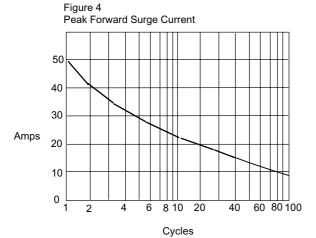


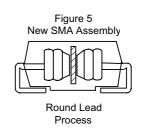
Reverse Voltage - Volts

ES2A thru ES2M



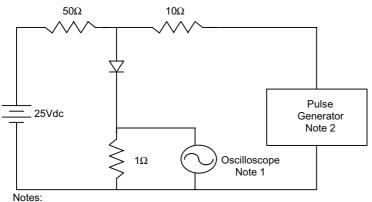
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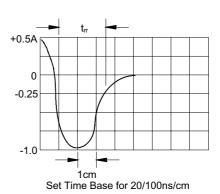




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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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