

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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Micro Commercial Components



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ES2A-L **THRU** ES2J-L

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Glass Passivated Die Construction
- Super fast switching speed under 35ns
- Marking: Cathode band and type number (No '-L' Suffix)
- Halogen free available upon request by adding suffix "-HF"

- Operating Temperature: -65 $^{\circ}$ C to +175 $^{\circ}$ C
- Storage Temperature: -65 $^{\circ}$ C to +175 $^{\circ}$ C

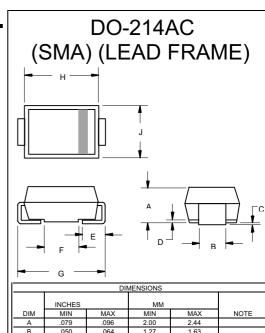
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ES2A-L	50V	35V	50V
ES2B-L	100V	70V	100V
ES2C-L	150V	105V	150V
ES2D-L	200V	140V	200V
ES2G-L	400V	280V	400V
ES2J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

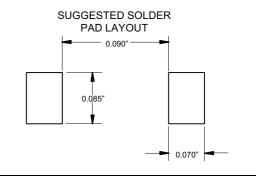
Average Forward Current	$I_{F(AV)}$	2.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ES2A-L-ES2D-L ES2G-L ES2J-L ES2J-L	V _F	.95V 1.25V 1.70V .975V(Typ) 1.25V(Max)	I _{FM} = 2.0A;T _J =25°C I _{FM} = 2.0A;T _J =150°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μA 1mA	T _A = 25°C T _A = 100°C
Maximum Reverse Recovery Time	T _{rr}	35ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

2 Amp Super Fast **Recovery Rectifier** 50 to 600 Volts



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.079	.096	2.00	2.44	
В	.050	.064	1.27	1.63	
C	.002	.008	.05	.20	
О		.02		.51	
Ш	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
Ð	.189	.220	4.80	5.59	
I	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	



ES2A-Lthru ES2J-L



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FIG.1-TYPICAL FORWARD

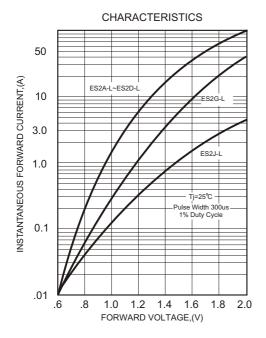
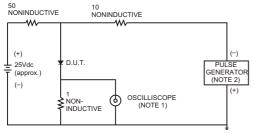


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

2. Rise Time= 10ns max., Source Impedance= 50 ohms

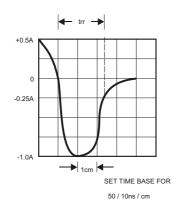


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

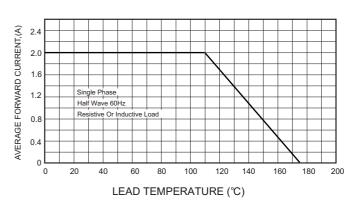


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

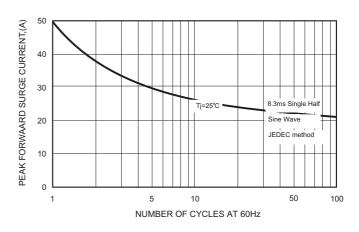
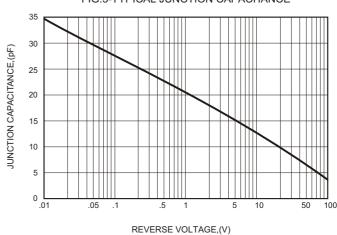


FIG.5-TYPICAL JUNCTION CAPACITANCE





Ordering Information:

Device	Packing	
ES2A-LTP~ ES2J-LTP	Tape&Reel: 5 Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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