



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

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"

Maximum Ratings

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

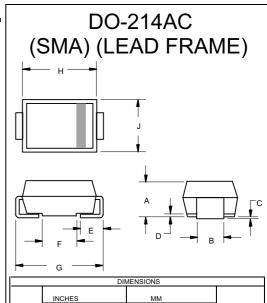
MCC	Maximum		Maximum DC
Part Number	Recurrent	Maximum	Blocking
	Peak Reverse	RMS Voltage	Voltage
	Voltage		
ES2A-L	50V	35V	50V
ES2B-L	100V	70V	100V
ES2C-L	150V	105V	150V
ES2D-L	200V	140V	200V
ES2G-L	400V	280V	400V
ES2J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

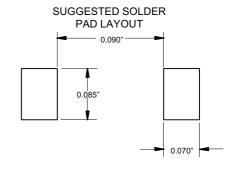
Average Forward Current	I _{F(AV)}	2.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ES2A-L-ES2D-L ES2G-L ES2J-L ES2J-L	V _F	.95V 1.25V 1.70V .975V(Typ) 1.25V(Max)	I _{FM} = 2.0A;T _J =25°C I _{FM} = 2.0A;T _J =150°C
Maximum DC Reverse Current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

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

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



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.079	.096	2.00	2.44	
В	.050	.064	1.27	1.63	
С	.002	.008	.05	.20	
D		.02	_	.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
Н	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	



ES2A-Lthru ES2J-L



FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

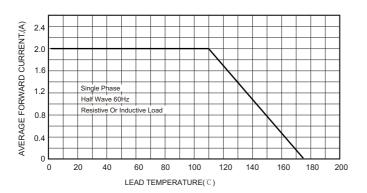


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

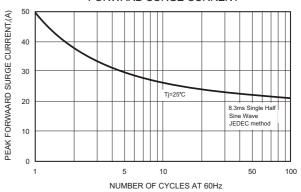


FIG.3-TYPICAL FORWARD CHARACTERISTICS

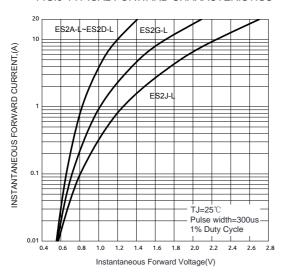


FIG.4: TYPICAL REVERSE CHARACTERISTICS

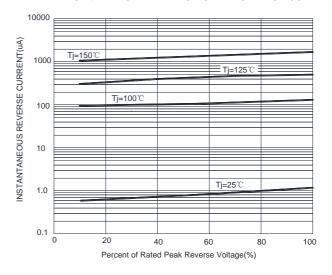
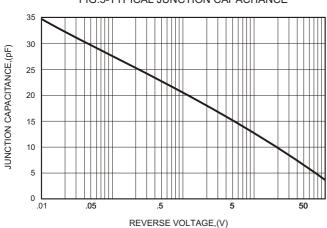


FIG.5-TYPICAL JUNCTION CAPACITANCE

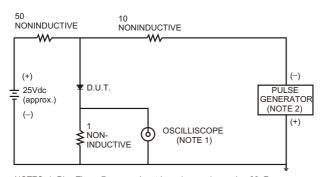


FORWARD VOLTAGE,(V)

ES2A-Lthru ES2J-L

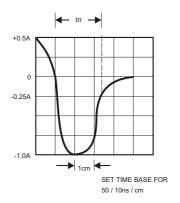


FIG.6- TEST CIRCUIT DIAGRAM AND REVERSE TIME CHARACTERISTICS



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

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





Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. ES2A-LTP-HF~ES2J-LTP-HF

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