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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

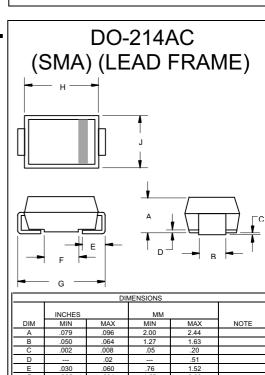
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ES2A-L	50V	35V	50V
ES2B-L	100V	70V	100V
ES2C-L	150V	105V	150V
ES2D-L	200V	140V	200V
ES2G-L	400V	280V	400V
ES2J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

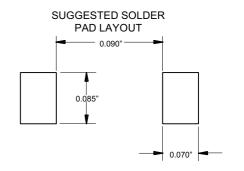
Average Forward Current	$I_{F(AV)}$	2.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ES2A-L-ES2D-L ES2G-L ES2J-L ES2J-L	V _F	.95V 1.25V 1.70V .975V(Typ) 1.25V(Max)	I _{FM} = 2.0A;T _J =25°C I _{FM} = 2.0A;T _J =150°C
Maximum DC Reverse Current 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	C _J	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



DIWENSIONS						
	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		
Е	.030	.060	.76	1.52		
F	.065	.091	1.65	2.32		
G	.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

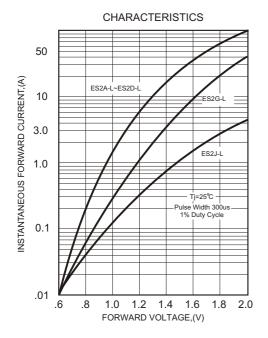
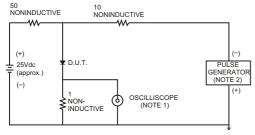


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



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

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

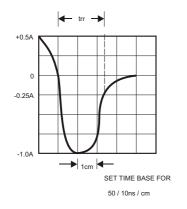


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

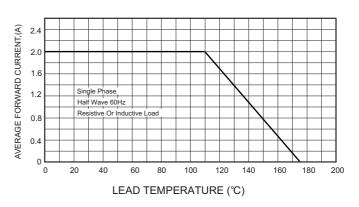


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

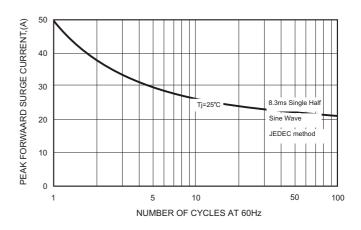
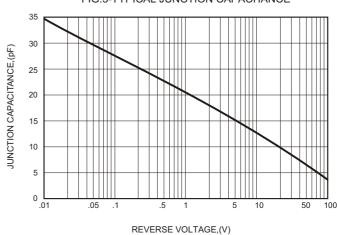


FIG.5-TYPICAL JUNCTION CAPACITANCE





Ordering Information:

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

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

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