# LITE ON SEMICONDUCTOR

### ES2A thru ES2J

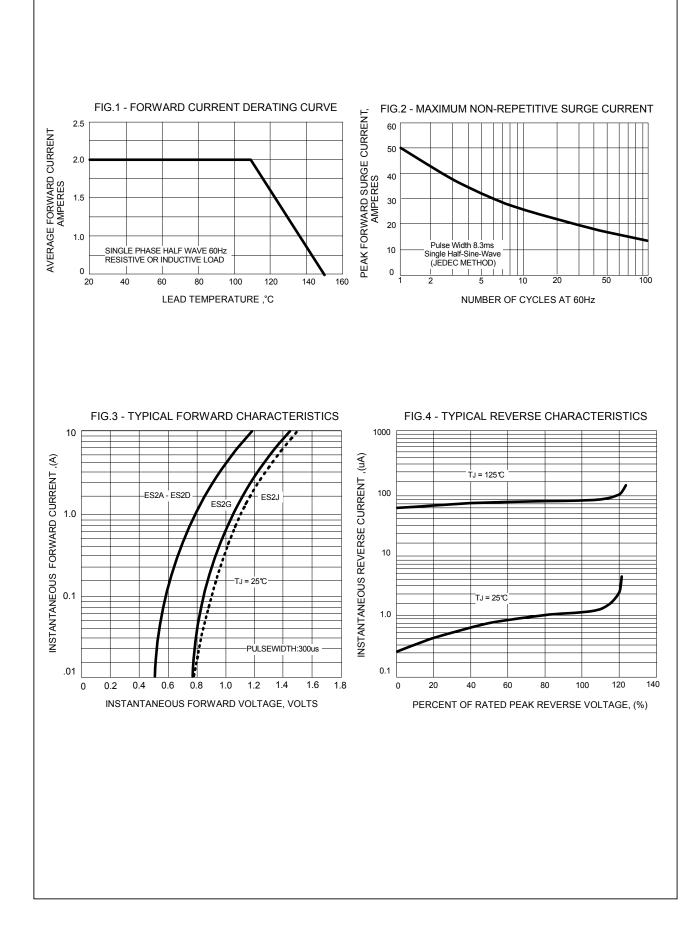
#### SURFACE MOUNT REVERSE VOLTAGE - 50 to 600 Volts SUPER FAST RECTIFIERS FORWARD CURRENT - 2.0 Amperes **FEATURES** SMB • Glass passivated chip • Super fast switching for high efficiency • For surface mounted applications SMB • Low forward voltage drop and high current capability DIM. MIN. MAX. • Low reverse leakage current 4.06 4.57 А Plastic material has UL flammability classification 3.30 3.94 В 94V-0 С 1.96 2.21 D 0.15 0.31 Е 5.21 5.59 F 0.05 0.20 **MECHANICAL DATA** G 2.01 2.50 • Case : Molded plastic Н 0.76 1.52 • Polarity : Color band denotes cathode All Dimensions in millimeter • Weight: 0.003 ounces, 0.093 grams MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at $25^{\circ}$ C ambient temperature unless otherwise specified. -----\_\_\_\_ . . . . . . . . .

CHARACTERISTICS	SYMBOL	ES2A	ES2B	ES2C	ES2D	ES2G	ES2J	UNIT	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	400	600	V	
Maximum RMS Voltage	VRMS	35	70	105	140	280	420	V	
Maximum DC Blocking Voltage	VDC	50	100	150	200	400	600	V	
Maximum Average Forward Rectified Current @TL =110 C	l(AV)	2.0						А	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	50						A	
Maximum forward Voltage at 2.0A DC	VF	0.92 1.25				1.30	V		
Maximum DC Reverse Current @TJ =25 C at Rated DC Blocking Voltage @TJ=125 C	IR	5.0 350						uA	
Maximum Reverse Recovery Time (Note 1)	Trr	25 35					35	ns	
Typical Reverse Recovery Time	TRR	20 30					30	ns	
Typical Junction Capacitance (Note 2)	CJ	25						pF	
Typical Thermal Resistance (Note 3)	Re jl	20 25					25	°C/W	
Operating Temperature Range	TJ	-55 to + 150						°	
Storage Temperature Range	Тѕтс	-55 to + 150						Ĉ	
NOTES : 1.Reverse Recovery Test Conditions :IF=0.5A,IR=1.0A,IRR=0.25A.						REV. 5, Sep-2010, KSGB01			

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance junction to Lead.

## RATING AND CHARACTERISTIC CURVES ES2A thru ES2J



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