

LITE-ON **SEMICONDUCTOR**

ES2DA-ES2JA(LS)

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 200 to 600 Volts FORWARD CURRENT – 2.0 Ampere

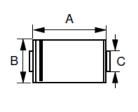
FEATURES

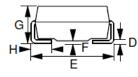
- · Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- · Low forward voltage drop and high current capability
- · Low reverse leakage current
- Available in "Green" Package: SMA
 - Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
 - Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- · Case :molded plastic
- · Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free"
- · Polarity: Indicated by cathode band • Weight: 0.07grams(Approximate)
- Moisture Sensitivity: Level 1 per J-STD-020C

SMA





SMA					
DIM	MIN	MAX			
Α	4.06	4.57			
В	2.29	2.92			
С	1.27	1.63			
D	0.15	0.31			
Е	4.83	5.59			
F	0.05	0.20			
G	2.01	2.40			
Н	0.76	1.52			
All dimension in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	ES2DA	ES2GA	ES2JA	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Maximum average forward rectified current @T _L =110°C	I _(AV)	2.0			Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	ave I _{FSM} 50			А	
Operation and storage temperature range	Тл ,Тѕтс	-55 to +150		°C	
Typical thermal resistance (Note 6)			20	25	°C/W

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CO	NDITIONS	SYMBOL	MAX.			UNIT
Forward voltage (Note 4)	I _F =2A	T _J =25°C	V_{F}	0.92	1.25	1.30	V
Maximum DC Reverse curred DC Blocking voltage	nt at Rated	T _J =25°C T _J =125°C	I _R		5.0 200		uA
Typical junction capacitance (Note 5)		Ст	25		pF		

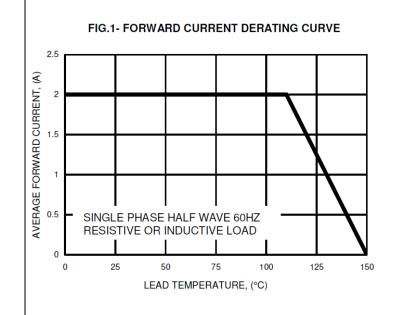
DYNAMIC ELECTRICAL CHARACTERISTICS

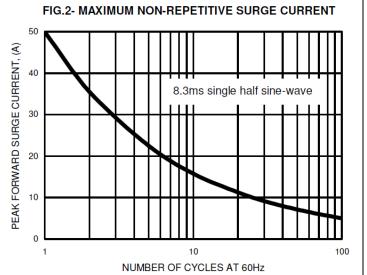
PARAMETER	TEST CONDITIONS	SYMBOL	MAX.		UNIT
Reverse recovery time	I _F =0.5A, I _{rr} = 0.25A, I _R =1.0A	t _{rr}	25	35	ns
Note : REV-10, Oct-2021					KSGA02

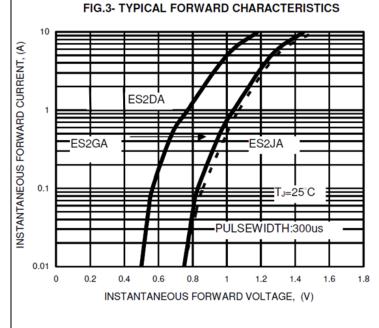
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. 300us pulse width, 2% duty cycle.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- 6. Thermal Resistance Junction to Lead

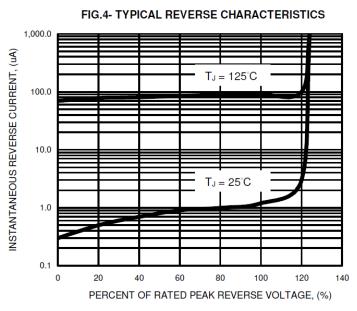


RATING AND CHARACTERISTIC CURVES ES2DA-ES2JA(LS)







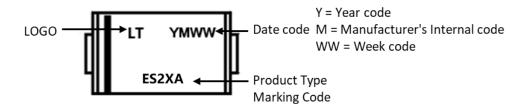




Ordering Information:

Part Number	Dagleage	Packing		
	Package	Qty.	Carrier	
ES2DA_HF	SMA	5000	Reel	
ES2DA_HF-07	SMA	1500	Reel	
ES2GA_HF	SMA	5000	Reel	
ES2JA_HF	SMA	5000	Reel	

Marking Information:





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