ES2A thru ES2J

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 2.0 Amperes

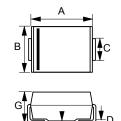
FEATURES

- 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

MECHANICAL DATA

- Case : Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity : Color band denotes cathodeWeight : 0.003 ounces, 0.093 grams

SMB



SMB							
DIM.	MIN.	MAX.					
Α	4.06	4.57					
В	3.30	3.94					
С	1.96	2.21					
D	0.15	0.31					
E	5.21	5.59					
F	0.05	0.20					
G	2.01	2.50					
Н	0.76	1.52					
All Dimensions in millimeter							

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°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	٧
Maximum RMS Voltage	VRMS	35	70	105	140	280	420	٧
Maximum DC Blocking Voltage	VDC	50	100	150	200	400	600	V
Maximum Average Forward @TL =110 °C	I(AV)	2.0						Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	Ігѕм	50						Α
Maximum forward Voltage at 2.0A DC	VF	0.92 1.25 1.				1.30	٧	
Maximum DC Reverse Current @TJ =25 ℃ at Rated DC Blocking Voltage @TJ=125 ℃	lR	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)	Rθ JL	20 25				25	°C/W	
Operating Temperature Range	TJ	-55 to + 150					င	
Storage Temperature Range	Тѕтс	-55 to + 150					င	

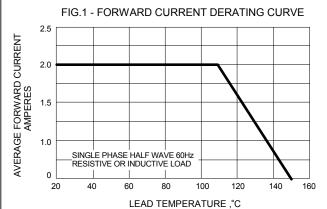
NOTES: 1.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

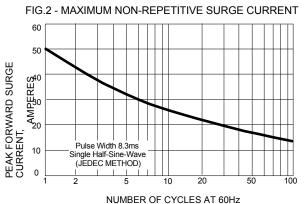
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

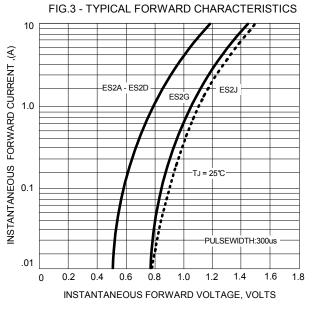
3. Thermal Resistance junction to Lead.

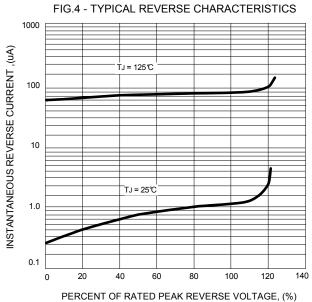
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