

2A,600V Superfast Rectifier

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260°C/10 seconds



Applications

For use in secondary rectification and freewheeling for superfast switching speeds of converters in consumer applications.

Maximum Ratings & Electrical Characteristics(T _A =25°C unless otherwise noted)						
Parameter	Symbol	ES2HJA	Unit			
Maximum repetitive peak reverse voltage	Vrrm	600	V			
Maximum RMS voltage	VRMS	420	V			
Maximum DC blocking voltage	VDC	600	V			
Maximum average forward rectified current	I _{F(AV)}	2	А			
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load	IFSM	35	A			
Operating junction temperature range	TJ	-55 to +175	°C			
Storage temperature range	Тѕтс	-55 to +175	°C			

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	RthJA	90	°C /W			
Thermal Resistance, Junction to Case	R _{thJC}	20	°C /W			
Thermal Resistance, Junction to Lead	R _{thJL}	25	°C /W			



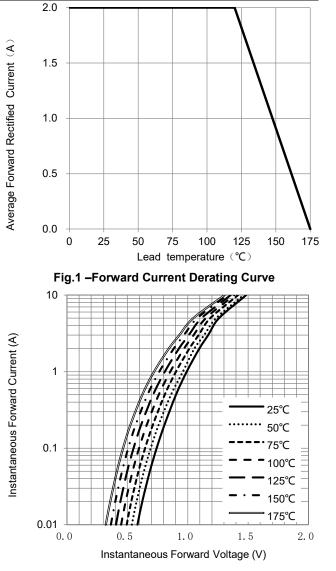
Electrical Specifications(TA=25°C unless otherwise noted)							
Parameter	Symbol	Test Conditions	ES2HJA	Unit			
Maximum forward drop voltage	VF	I⊧=2A	1.45	V			
Maximum reverse leakage current @V _R	IR	TJ =25°C	5	uA			
Typical junction capacitance	CJ	V _R =4.0V, f=1MHZ	22	pF			
Maximum reverse recovery time	trr	I⊧=0.5A, I⊧=1.0A, I _{RR} =0.25A	50	ns			

Note:

1.Mounted on copper pad area of 5 x 5mm to each terminal.



ES2HJA GOOD-ARK Electronics

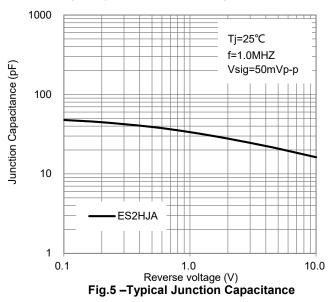


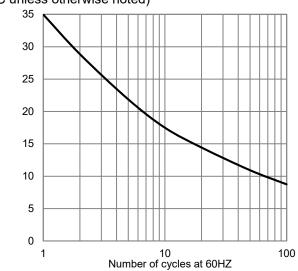
Ratings and Characteristics Curves (T_A=25°C unless otherwise noted)

Peak Forward Surge Current(A)

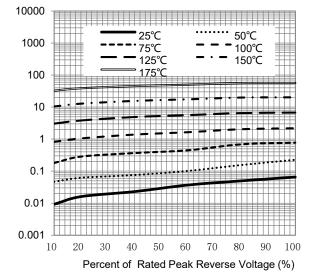
Instantaneous Reverse Current (uA)

Fig.3 – Typical Forward Voltage Characteristics









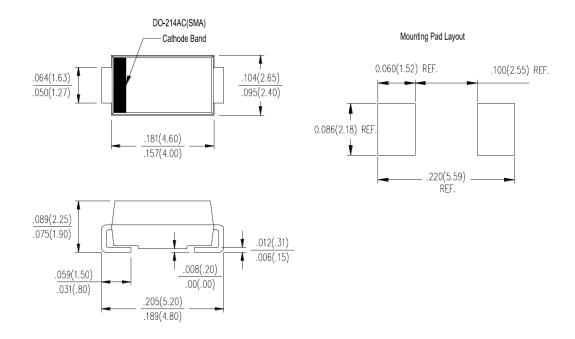




Package Outline Dimensions

in inches (millimeters)

SMA (DO-214AC)





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