

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 (TA=25°C unless otherwise noted)						
Parameter	Symbol	ES2HJB	Unit			
Maximum repetitive peak reverse voltage	Vrrm	600	V			
Maximum RMS voltage	Vrms	420	V			
Maximum DC blocking voltage	V _{DC}	600	V			
Maximum average forward rectified current	IF(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 (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	RthJA	85	°C /W				
Thermal Resistance, Junction to Case	R _{thJC}	15	°C /W				
Thermal Resistance, Junction to Lead	R _{thJL}	20	°C /W				



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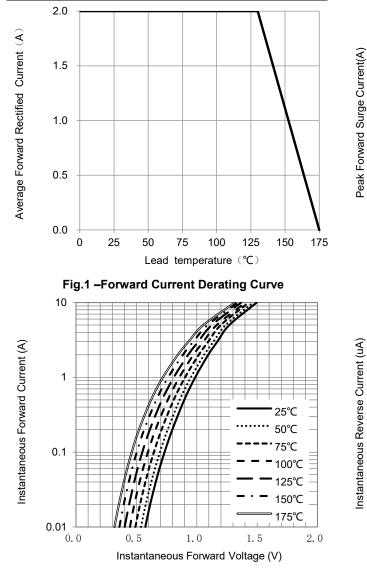
Electrical Specifications(TA=25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	ES2HJB	Unit				
Maximum forward drop voltage	VF	I⊧=2A	1.45	V				
Maximum reverse leakage current @V _R	IR	T _J =25°C	5	uA				
Typical junction capacitance	CJ	V _R =4.0V, f=1MHZ	213	pF				
Maximum reverse 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.

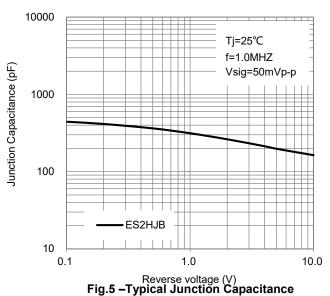


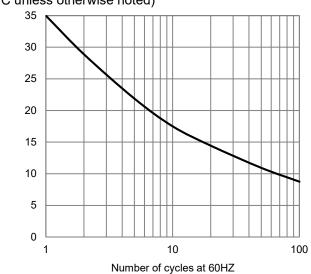
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Ratings and Characteristics Curves (T_A=25°C unless otherwise noted)

Fig.3 – Typical Forward Voltage Characteristics







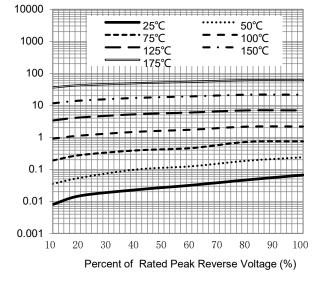


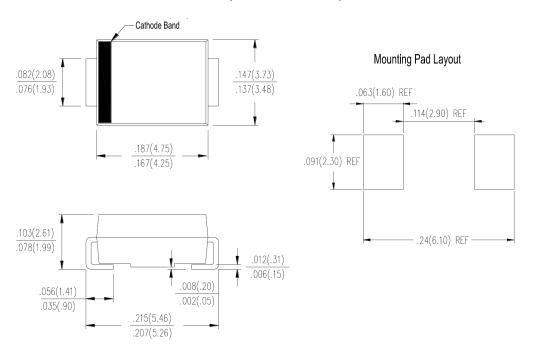
Fig.4 – Typical Reverse Current Characteristics



Package Outline Dimensions

in inches (millimeters)

SMB (DO-214AA)





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