

## ES1AW thru ES1JW



Characteristics	Symbol	ES1AW	ES1BW	ES1CW	ES1DW	ES1EW	ES1GW	ES1JW	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V
Maximum Instantaneous Forward Voltage @1A	V <sub>F</sub>		0.95				1.25		V
Maximum DC Reverse Current @T <sub>A</sub> =25°C at Rated DC Blocking Voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	5 30						μA	
Maximum Average Forward Rectified Current @T <sub>A</sub> =55°C	I <sub>F</sub>	1						А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							А
Maximum Reverse Recovery Time (NOTE 1)	Trr		35						
Typical Junction Capacitance (NOTE 2)	CJ		15						
Typical Thermal Resistance (NOTE 3)	R <sub>BJA</sub>		55						
Operating Temperature Range	TJ		-55 to +150						
StorageTemperature Range	T <sub>STG</sub>		-55 to +150						

NOTES:

1.Measured with I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,I<sub>RR</sub>=0.25A

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

3.Thermal Resistance from Junction to Ambient at. 5.0x5.0mm<sup>2</sup> copper pad areas.



## **Rating and Characteristic Curves**



TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT





FIG.2-MAXIMUM NON-REPETITIVE PEAK

NUMBER OF CYCLES AT 60 Hz



