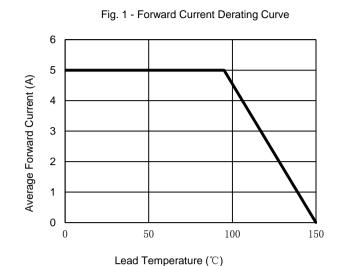


SR520E THRU SR5200E

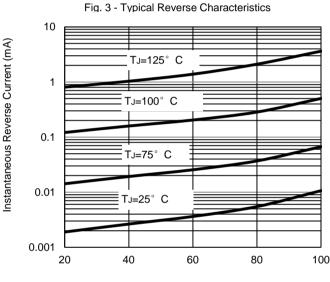
Surface Mount Schottky Barrier Recitifiers			Reverse Voltage - 200 Volts Forward Current - 5.0 Amperes										
 Mechanical Data Case: JEDEC DO-201AE Polarity: As marked on the body Mounting position: Any Note: Products with logo or hor horizon are made by HY Electronic (Cayman) Limited. Applications For use in low vlotage, high frequency inverters, polarity protection applications. 			Β			_	25.4)	.220	(5.0)	aches (Millim		
Maximum Ratings and Electrical Characte													
Rating at 25°C ambient temperature unless otherwise specif Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.	ed.												
Single phase, half wave, 60Hz, resistive or inductive load.	Symbol		SR5 30E	SR5 40E	SR5 50E	SR5 60E	SR5 70E	SR5 80E	SR5 90E	SR5 100E	SR5 150E	SR5 200E	Unit
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.	1												Unit
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics	Symbol	20E	30E	40E	50E	60E	70E	80E	90E	100E	150E	200E	
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage	Symbol VRRM	20E 20	30E 30	40E 40	50E 50	60E 60	70E 70	80E 80	90E 90	100E 100	150E 150	200E 200	V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage	Symbol VRRM VRMS	20E 20 14	30E 30 21	40E 40 28	50E 50 35	60E 60 42	70E 70 49	80E 80 56	90E 90 63	100E 100 70	150E 150 105	200E 200 140	V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage	Symbol VRRM VRMS VDC	20E 20 14	30E 30 21	40E 40 28	50E 50 35	60E 60 42	70E 70 49 70	80E 80 56 80	90E 90 63	100E 100 70	150E 150 105	200E 200 140	V V V
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Symbol VRRM VRMS VDC I(AV)	20E 20 14	30E 30 21	40E 40 28	50E 50 35	60E 60 42	70E 70 49 70 5	80E 80 56 80	90E 90 63	100E 100 70	150E 150 105	200E 200 140	V V V A
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Symbol Vrrm Vrms Vdc I(AV) IFSM	20E 20 14	30E 30 21	40E 40 28	50E 50 35	60E 60 42	70E 70 49 70 5 150	80E 80 56 80	90E 90 63	100E 100 70	150E 150 105	200E 200 140	V V V A A
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	Symbol VRRM VRMS VDC I(AV) IFSM Reja	20E 20 14	30E 30 21 30	40E 40 28	50E 50 35	60E 60 42	70E 70 49 70 5 150	80E 80 56 80	90E 90 63 90	100E 100 70	150E 150 105	200E 200 140	V V V A A C/W
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	Symbol Vrrm Vrms Vdc I(av) Ifsm Reja Rejl	20E 20 14	30E 30 21 30	40E 40 28	50E 50 35	60E 60 42	70E 70 49 70 5 150 25	80E 80 56 80	90E 90 63 90	100E 100 70	150E 150 105	200E 200 140	V V V A A C/W °C/W
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) Typical Thermal Resistance Juction to Ambient, Lead or Case	Symbol VRRM VRMS VDC I(AV) IFSM ReJA ReJL ReJC	20E 20 14 20	30E 30 21 30 15	40E 40 28	50E 50 35 50	60E 60 42	70E 70 49 70 5 150 25	80E 80 56 80	90E 90 63 90	100E 100 70 100	150E 150 105	200E 200 140	V V V A A C/W °C/W
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) Typical Thermal Resistance Juction to Ambient, Lead or Case	Symbol VRRM VRMS VDC I(AV) IFSM R0JL R0JC CJ	20E 20 14 20	30E 30 21 30 15	40E 40 28	50E 50 35 50	60E 60 42 60	70E 70 49 70 5 150 25	80E 80 56 80	90E 90 63 90 10	100E 100 70 100	150E 150 105	200E 200 140 200	V V V A A C/W °C/W °C/W
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%. Characteristics Maximum Repetitive Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Rectified Current @TL=95°C Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) Typical Thermal Resistance Juction to Ambient, Lead or Case Typical Junction Capacitance (Note1) Maximum Instantaneous Forward Voltage at 5.0A DC (Note2) Maximum DC Reverse Current @TJ=25°C	Symbol VRRM VRMS VDC I(AV) IFSM R0JL R0JL R0JL R0JC VF	20E 20 14 20	30E 30 21 30 15	40E 40 28	50E 50 35 50	60E 60 42 60	70E 70 49 70 5 150 25 8 8	80E 80 56 80	90E 90 63 90 10	100E 100 70 100	150E 150 105	200E 200 140 200	V V A A °C/W °C/W °C/W °C/W

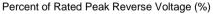
2. 300us pulse width,2% duty cycle.

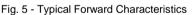
3. The typical data above is for reference only.

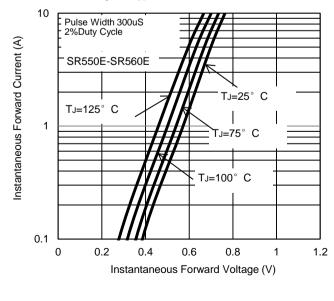




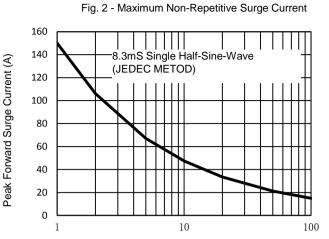






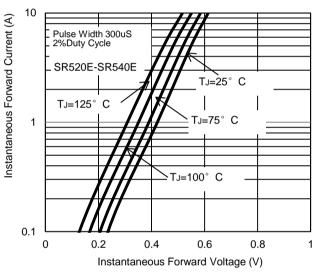


The curve above is for reference only.

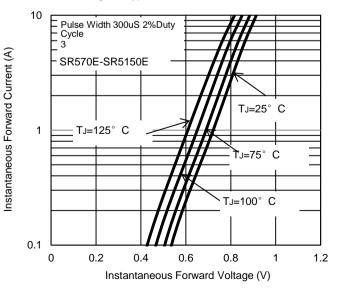


Number of Cycles at 60Hz





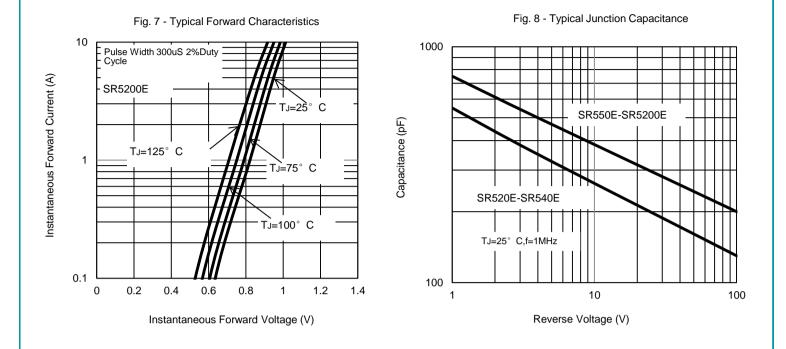




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