

SR820 THRU SR8100

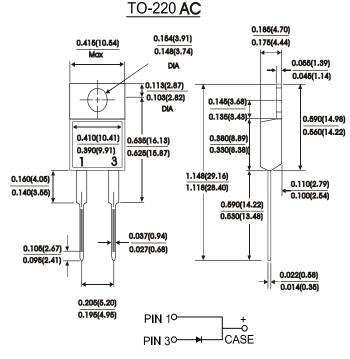
SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction
 Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250° C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case : JEDEC TO-220AC molded plastic TemInals : Leads solderable per MIL-STD-750 Method 2026 Polarity : As marked Mounting Postition : Any Mounting Torque 5 In - Ibs.max Weight : 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified. Single phase half wave, 60 Hz resistive or inductive load. For capacitive load. derate current by 20%.

Characteristic	Symbol	SR 820	SR 830	SR 835	SR 840	SR 845	SR 850	SR 860	SR 880	SR 8100	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	25	28	32	35	42	56	70	Volts
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	80	100	Volts
Maximum average forward rectified current at See fig.1	lo	8.0								Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150								Amps	
Maximum instantaneous forward voltage (NOTE 2) IF=8.0A	V _F	0.63 0.73 0.85						Volts			
Maximum instantaneous reverse current at rated DC blocking $Tc = 25 \degree C$ $Tc = 125 \degree C$ voltage (NOTE 2) $Tc = 125 \degree C$		0.5 50								mA	
Typical thermal resistance (NOTE 1)	R _{th} -JC	5.0								°C/W	
Operating temperature range	Tj	-65to+150							°C		
Storage temperature range	^T Stg	-65to+150								°C	

NOTES:

(1)Thermal resistance from junction to case

(2)Pulse test: 300 us pulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES

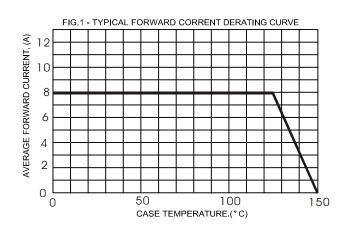
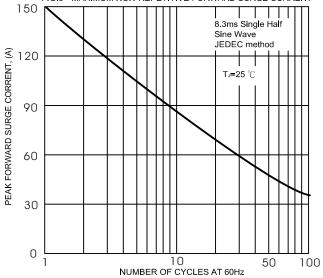
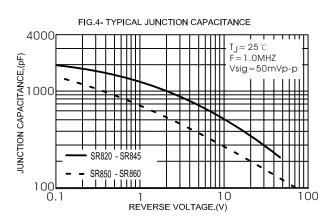
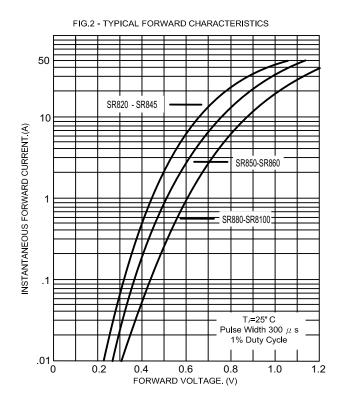
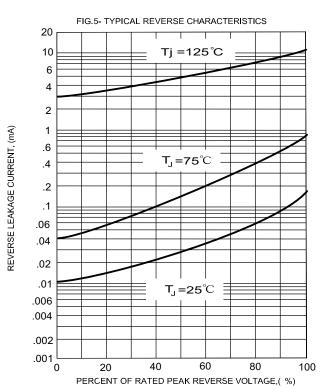


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT









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