



星合电子
XINGHE ELECTRONICS

SR820 THRU SR8200(SINGLE CHIP)

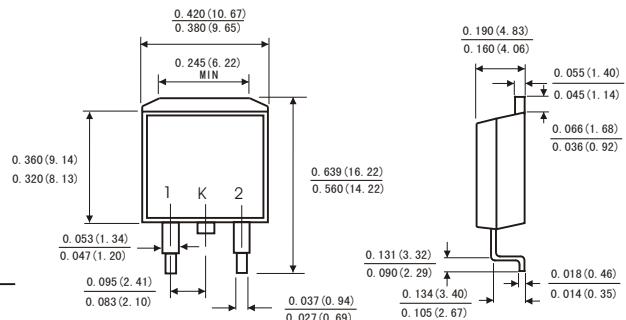
SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 20 to 200 Volts
Forward Current - 8.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case

TO-263

D2PAK



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC TO-263 molded plastic body
- Terminals: Solderable per MIL-STD-202,method 208
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	SR 820	SR 830	SR 840	SR 850	SR 860	SR 880	SR 8100	SR 8150	SR 8200	Units				
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts				
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts				
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts				
Maximum average forward rectified current (see Fig.1)	I _(AV)	8.0								Amps					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0								Amps					
Maximum instantaneous forward voltage at 8.0 A(Notes 1)	V _F	0. 60		0.75		0.85		0.90		0.95	Volts				
Maximum instantaneous reverse current at rated DC blocking voltage(Notes 1)	I _R	0.2								mA					
T _A =25°C		15		50											
Typical thermal resistance (Notes 2)	R _{θJC}	2.5								°C/W					
Operating junction temperature range	T _J	-65 to +125			-65 to +150			°C			°C				
Storage temperature range	T _{STG}	-65 to +150								°C					

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case



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FIG.1-FORWARD CURRENT DERATING CURVE

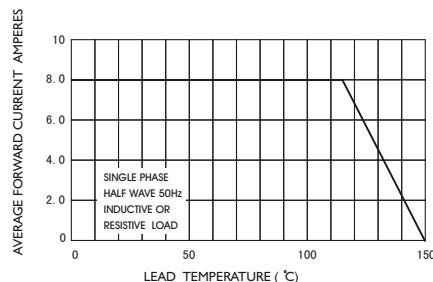


FIG.4-TYPICAL JUNCTION CAPACITANCE

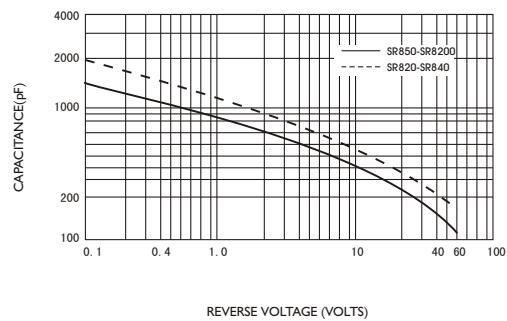


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

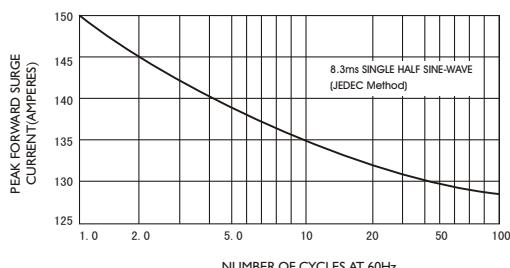


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

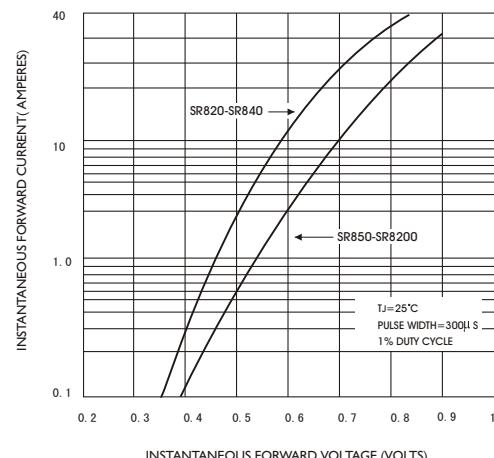


FIG.3-TYPICAL REVERSE CHARACTERISTICS

