



SR1620 THRU SR16200(SINGLE CHIP)

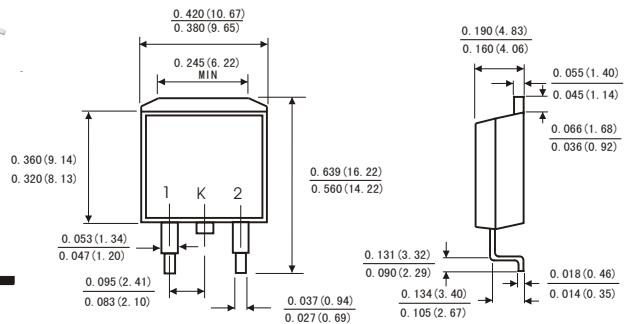
SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 20 to 200 Volts
Forward Current - 16.0 Amperes

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
- Component in accordance to RoHS 2002/95/EC and
WEEE 2002/96/EC



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 1620	SR 1630	SR 1640	SR 1650	SR 1660	SR 1680	SR 16100	SR 16150	SR 16200	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)	16.0								Amps							
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200.0								Amps							
Maximum instantaneous forward voltage at 16.0 A	V _F	0. 60		0.75		0.85		0.90		0.95							
Maximum instantaneous reverse current at rated DC blocking voltage (Note 1)	I _R	0.2		30		50				mA							
Typical thermal resistance (Note 2)	R _{θJC}	3. 0								°C/W							
Operating junction temperature range	T _J	-65 to +150								°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

RATINGS AND CHARACTERISTIC CURVES SR1620 THRU SR16200

FIG.1-FORWARD CURRENT DERATING CURVE

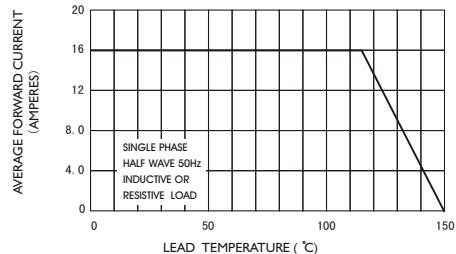


FIG.4-TYPICAL JUNCTION CAPACITANCE

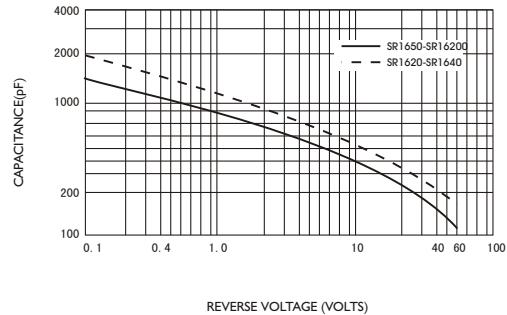


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

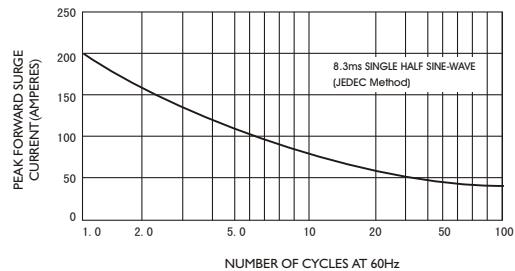


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

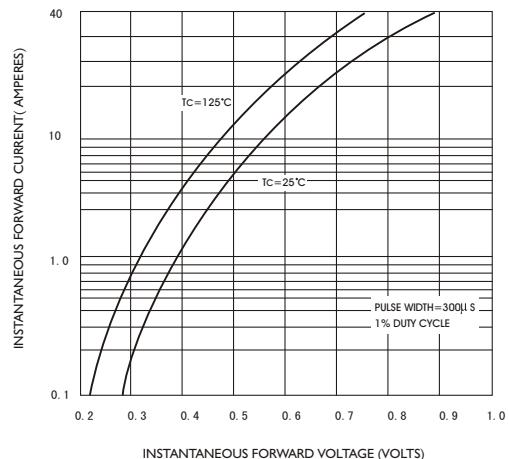


FIG.3-TYPICAL REVERSE CHARACTERISTICS

