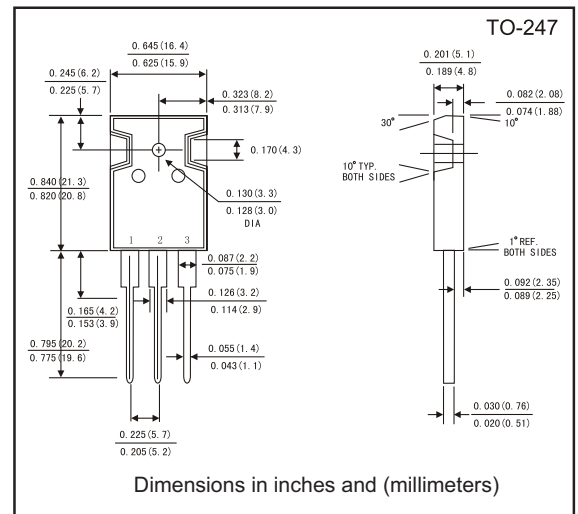


## SCHOTTKY BARRIER RECTIFIER

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



### MECHANICAL DATA

- Case: JEDEC TO-247 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%.

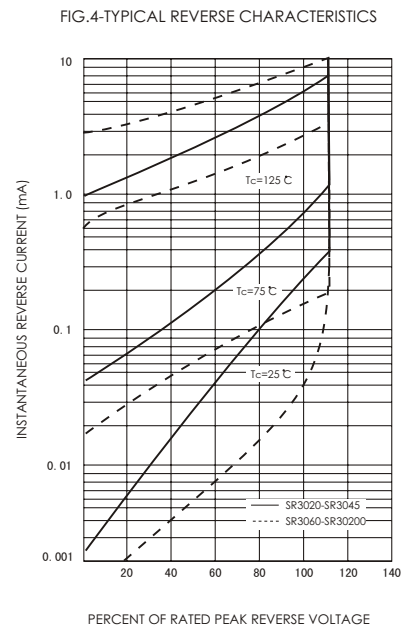
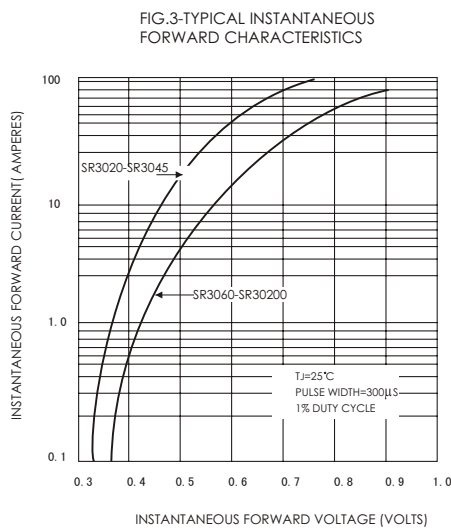
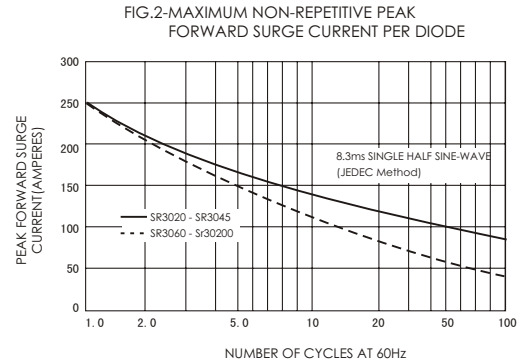
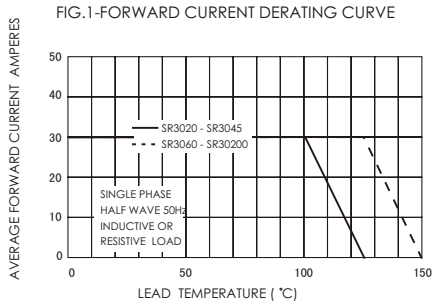
Parameter	Symbols	SR 3020C	SR 3030C	SR 3040C	SR 3045C	SR 3060C	SR 3080C	SR 30100C	SR 30150C	SR 30200C	Units	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	45	60	80	100	150	200	Volts	
Maximum RMS voltage	$V_{RMS}$	14	21	28	32	42	56	70	105	140	Volts	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	45	60	80	100	150	200	Volts	
Maximum average forward rectified current (see Fig.1)	$I_{AV}$	30.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load JEDEC method	$I_{FSM}$	250.0									Amps	
Maximum Instantaneous Forward Voltage at 30.0 A	$V_F$	0.60			0.75	0.85	0.95			Volts		
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a=25\text{ }^\circ\text{C}$	0.50									mA	
	$T_a=125\text{ }^\circ\text{C}$	30			50							
Typical thermal resistance (Note 3)	$R_{\theta JC}$	3.0									$^\circ\text{C/W}$	
Operating junction and storage temperature range	$T_J/T_{STG}$	-65 to +150					-65 to +150					$^\circ\text{C}$

#### Notes:

- Pulse test: 300  $\mu\text{s}$  pulse width 1% duty cycle
- Thermal resistance from junction to case

## SCHOTTKY BARRIER RECTIFIER

### RATINGS AND CHARACTERISTIC CURVES SR3020C - SR30200C



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.