



# 15SQ030 THRU 15SQ100

## SCHOTTKY BARRIER RECTIFIERS

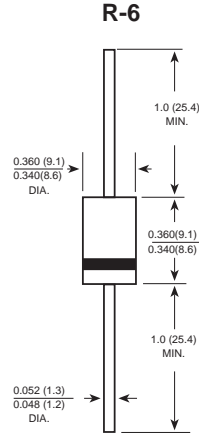
Reverse Voltage 30- 100 Volts Forward Current - 15 Amperes

### FEATURES

The plastic package carries Underwriters Laboratory  
 Flammability Classification 94V-0  
 Low power loss,high efficiency  
 Ultralow forward voltage,high current capability  
 High forward surge current capability  
 For use in low voltage,high frequency inverters  
 free wheeling,and polarity protection applications

### MECHANICAL DATA

**Case:** R-6 molded plastic body  
**Terminals:** Plated axial leads, solderable per MIL-STD-750,  
 Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight:**0.072 ounce, 2.05 grams



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	15SQ030	15SQ035	15SQ040	15SQ045	15SQ050	15SQ060	15SQ080	15SQ100	UNIT	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	35	40	45	50	60	80	100	V	
Maximum RMS Voltage	V <sub>RMS</sub>	21	24.5	28	31.5	35	42	56	70	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	35	40	45	50	60	80	100	V	
Maximum Average Forward Rectified Current@T <sub>c</sub> =95 °C	I <sub>(AV)</sub>	15								A	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I <sub>FSM</sub>	275								A	
Peak Forward Voltage at 15A DC(Note1)	V <sub>F</sub>	0.55			0.7		0.85			V	
Maximum DC Reverse Current @T <sub>j</sub> =25°C at Rated DC Bolcking Voltage @T <sub>j</sub> =100°C	I <sub>R</sub>	0.5				50					mA
Tyical Junction Capacitance (Note2)	C <sub>J</sub>	450									PF
Tyical Thermal Resistance (Note3)	R <sub>J</sub>	3.0									°C/w
Operating Temperature Range	T <sub>J</sub>	-55 to+200									°C
Storage Temperature Range	T <sub>STG</sub>	-55 to+200									°C

NOTES:1.300us Pulse Width, 2%Dudy Cycle.

2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.

3. Thermal Resistance Junction to Case.



## RATINGS AND CHARACTERISTIC CURVES 15SQ030 THRU 15SQ100

