

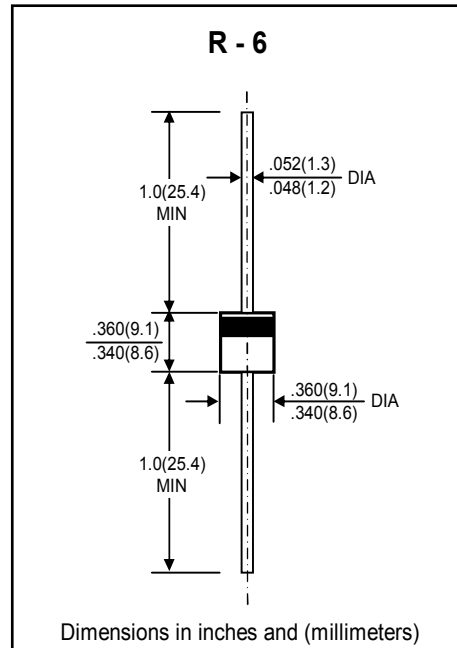
SCHOTTKY BARRIER RECTIFIERS
REVERSE VOLTAGE - 30 to 100Volts
FORWARD CURRENT - 15.0 Amperes

FEATURES

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

MECHANICAL DATA

- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.07 ounces , 2.1 grams
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	15SQ030	15SQ035	15SQ040	15SQ045	15SQ050	15SQ060	15SQ080	15SQ100	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	35	40	45	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	21	24.5	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	30	35	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current @T _c =95 °C	I _(AV)	15								A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I _{FSM}	275								A
Peak Forward Voltage at 15A DC(Note1)	V _F	0.55			0.7		0.8			V
Maximum DC Reverse Current @T _j =25°C at Rated DC Blocking Voltage @T _j =100°C	I _R	0.5				50				mA
Typical Junction Capacitance (Note2)	C _J	450								pF
Typical Thermal Resistance (Note2)	R _{θjc}	3.5								°C/W
Operating Temperature Range	T _J	-55 to+200								°C
Storage Temperature Range	T _{STG}	-55 to+200								°C

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

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

3.Thermal Resistance Junction to case.

RoHS compliant

