

## Schottky Barrier Rectifier, 15.0 A

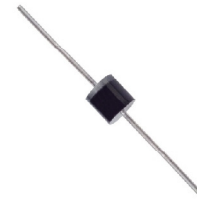
### Features

- Diffused junction
- Low cost
- Low reverse leakage current
- High surge current capability & low forward voltage drop
- Polarity: Color Band denotes Cathode
- High efficiency

### Mechanical Data

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

Thermal Specifications (T <sub>C</sub> = 25°C unless otherwise specified)			
Parameters	Symbol	Values	Units
Maximum operating junction temperature range	T <sub>J</sub>	-55 to +200	°C
Maximum storage temperature range	T <sub>STG</sub>	-55 to +200	°C
Typical thermal resistance junction to case	R <sub>θJC</sub>	3.5	°C/W



JEDEC R-6

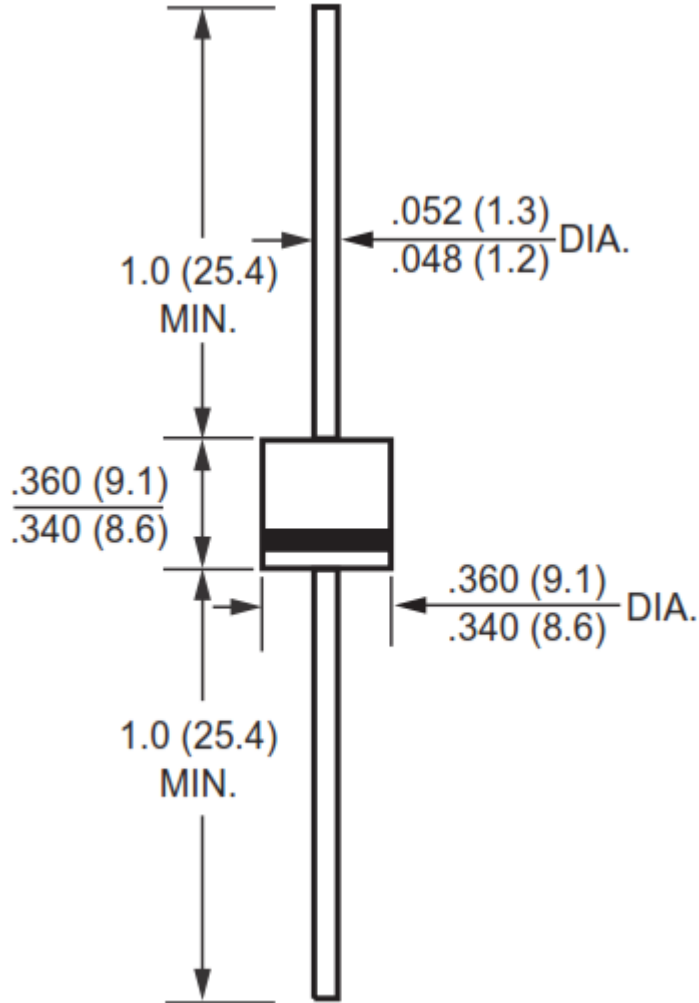
Electrical Characteristics (T <sub>C</sub> = 25°C unless otherwise specified)										
Parameter	Symbol	15SQ030	15SQ035	15SQ040	15SQ045	15SQ050	15SQ060	15SQ080	15SQ100	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	30	35	40	45	50	60	80	100	V
Maximum RMS voltage	V <sub>RMS</sub>	21	24.5	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 output current @ T <sub>C</sub> = 95°C	I <sub>F(AV)</sub>	15								A
Peak forward surge current (8.3ms) single half sine-wave superimposed on rated load	I <sub>FSM</sub>	275								A
Forward voltage drop @ 15A DC (Note 1)	V <sub>F</sub>	0.55				0.7		0.8		V
Typical junction capacitance (Note 2)	C <sub>J</sub>	450								pF
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> = 25°C	0.5								mA
	T <sub>A</sub> = 100°C	50								

### NOTES:

- (1) 300 μs, pulse width, 2% duty cycle
- (2) Measured at 1.0 MHz and reverse voltage of 4.0 VDC.

**Package Outlines**

**R-6**



**Dimensions in inches and (millimeters)**