

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 ($T_C = 25^\circ\text{C}$ unless otherwise specified)			
Parameters	Symbol	Values	Units
Maximum operating junction temperature range	T_J	-55 to +200	$^\circ\text{C}$
Maximum storage temperature range	T_{STG}	-55 to +200	$^\circ\text{C}$
Typical thermal resistance junction to case	$R_{\theta JC}$	3.5	$^\circ\text{C/W}$



JEDEC R-6

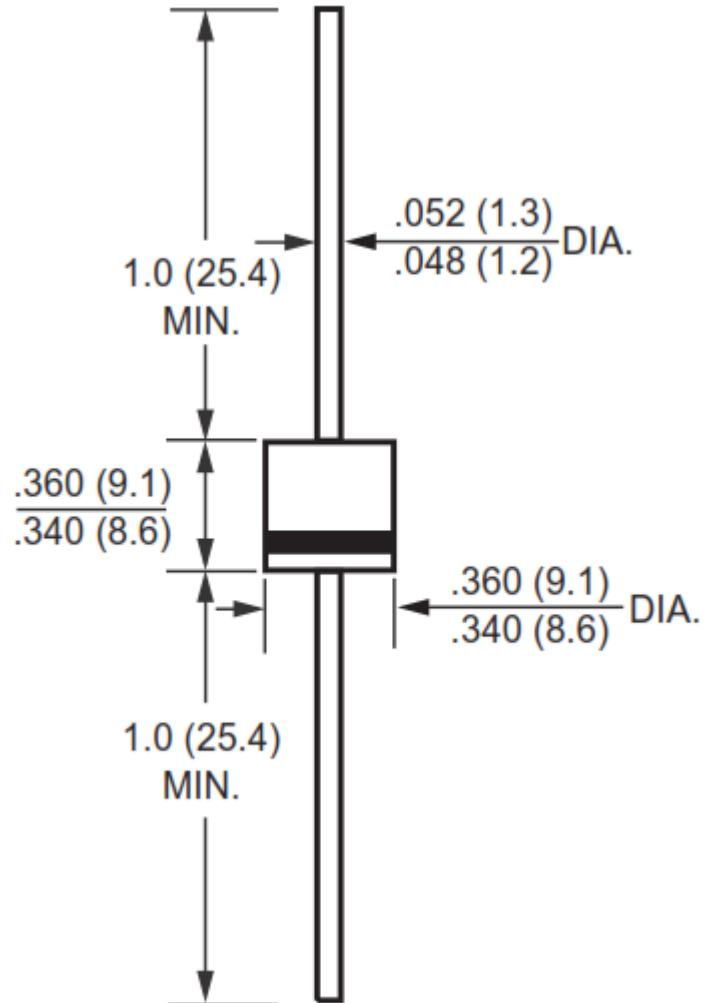
Electrical Characteristics (T _C = 25°C unless otherwise specified)											
Parameter		Symbol	15SQ030	15SQ035	15SQ040	15SQ045	15SQ050	15SQ060	15SQ080	15SQ100	Units
Maximum repetitive peak reverse voltage		V _{RRM}	30	35	40	45	50	60	80	100	V
Maximum RMS voltage		V _{RMS}	21	24.5	28	31.5	35	42	56	70	V
Maximum DC blocking voltage		V _{DC}	30	35	40	45	50	60	80	100	V
Maximum average forward output current @ T _C = 95°C		I _{F(AV)}	15								A
Peak forward surge current (8.3ms) single half sine-wave superimposed on rated load		I _{FSM}	275								A
Forward voltage drop @ 15A DC (Note 1)		V _F	0.55				0.7		0.8		V
Typical junction capacitance (Note 2)		C _J	450								pF
Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C	I _R	0.5								mA
	T _A = 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)