

## 15SQ045

#### SCHOTTKY BARRIER RECTIFIER

Voltage Range 45 Volts Current 15.0 Amperes

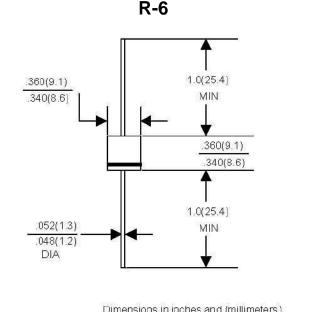
#### **Features**

- Metal silicon rectifie,majority carrier conduction
   Guard ring for transient protection

- Guard high of transient protection
  Low pwer loss, high efficiency
  High current capability low VF
  High surge capacity
  Plastic package has UL flammability classification 94 V-0

#### Mechanical Data

- Cases:JEDEC R-6 molded plastic
  Polarity:Color band cenotes cathode
- Weight: 0.07 ounces 2.1 grams
- Mounting position:Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistiver or inductive load. For capactitive load, derate current by 20%

Type Number		15SQ045	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	45	V
Maximum RMS Voltage	VRMS	31.5	V
Maximum DC blocking Voltage	VDC	45	V
Maximum Average Forward Rectified Current	lf(AV)	15	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300	А
Peak Forward Voltage @15.0A DC(Note 1)	VF	0.5	V
Maximum DC Reverse Current @ TA=25°C at rated DC Blocking voltage @ TA=100°C	IR	0.5 50.0	mA mA
Typical Thermal Resistance (Note 2)	RøJC	2.2	°C/W
Junction temperature Range at reduced reverse voltage VR≤80% VRRM VR≤50% VRRM in DC forward mode	TJ	-50 to +150 ≤175 ≤200	°C
Storage Temperature Range	Tstg	-50 to +150	°C

- NOTES: 1.300us Pulse Width. 2% Dudy Cyote.
  - 2.Thermal Resistance Junction to Case.

# RATING AND CHARACTERISTIC CURVES 15SQ045



