



WEE Technology Company Limited

Schottky Barrier Rectifiers

15SQ040 thru 15SQ100

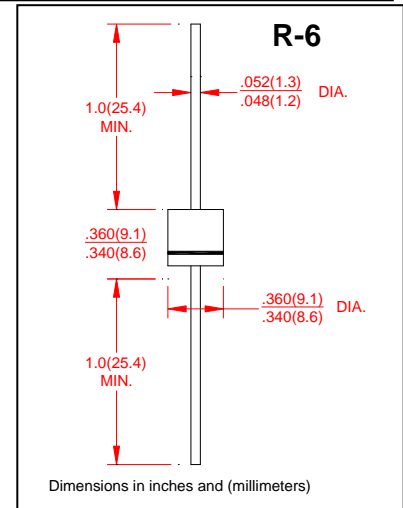
VOLTAGE RANGE 40-100 Volts
CURRENT 15.0 Ampere

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
- 250°C/10 seconds,0.373"(9.5mm)lead length

MECHANICAL DATA

- Case: JEDEC R-6 molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.07ounce, 2.0 gram



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 derate current by 20%

	Symbols	15SQ040	15SQ045	15SQ050	15SQ060	15SQ080	15SQ100	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	28	31.5	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	100	Volts
Maximum Average Forward Rectified Current@ $T_C=95^\circ C$	$I_{(AV)}$	15						Amps
Peak Forward Surge Current 8.3mS single half -sine wave superimposed on rated load (JEDEC method)	I_{FSM}	330						Amps
Maximum Instantaneous Forward Voltage@15A(Note1)	V_F	0.55		0.7		0.8		Volts
Maximum DC Reverse Current @ $T_J = 25^\circ C$ at rated DC blocking Voltage @ $T_J = 100^\circ C$	I_R	0.5						mA
		50						
Typical Junction Capacitance(Note2)	C_J	450						pF
Typical Thermal Resistance	$R_{\theta JC}$	3.5						°C/W
Operation and Storage Temperature Range	T_J, T_{STG}	-55 to +200						°C

Note1. Pulse test:300µs pulse width,2% duty cycle

Note2. Measured at 1.0MHz and applied reverse voltage of 4.0V

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.