DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

15SQ030 THRU 15SQ100

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

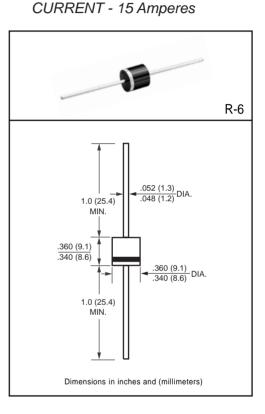
VOLTAGE RANGE - 30 to 100 Volts

FEATURES

- * Low power loss
- * Low forward voltage
- * High current capability
- * High efficiency
- * High surge capability
- * Guard ring for transient protection
- * For use in low voltage, high frequency inventers, free wheeling, and polarity protection applications

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 2.08 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.

		SYMBOL	15SQ030	15SQ040	15SQ050	15SQ060	15SQ080	15SQ100	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	30	40	50	60	80	100	Volts
Maximum RMS Voltage		Vrms	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		Ю	15						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	350					Amps	
Maximum Instantaneous Forward Voltage at 15A DC		Vf	0.	0.55 0.7 0.		8	Volts		
Maximum DC Reverse Current	@T _A = 25°C	la.	0.5						mAmps
at Rated DC Blocking Voltage	@TA = 100°C	IR	50						
Typical Thermal Resistance (Note 1)		Rejc	3.5						°C/W
Typical Junction Capacitance (Note 2)		CJ	450						pF
Storage and Operating Temperature Range		TJ, TSTG	-55 to +200					° C	

NOTES: 1. Thermal Resistance Junction to case.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (15SQ030 THRU 15SQ100)

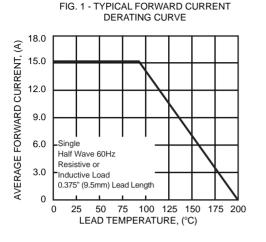


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

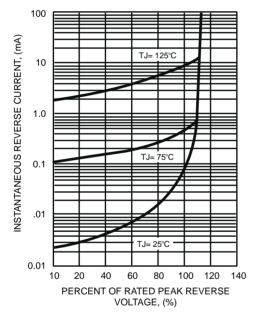
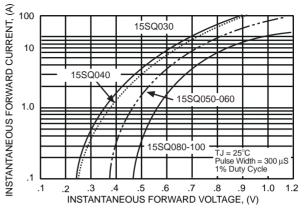
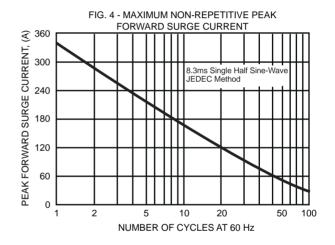
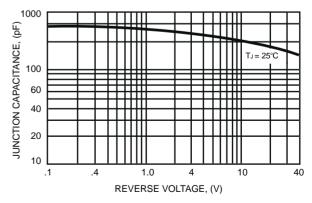


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS









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