DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

12SQ030 THRU 12SQ100

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

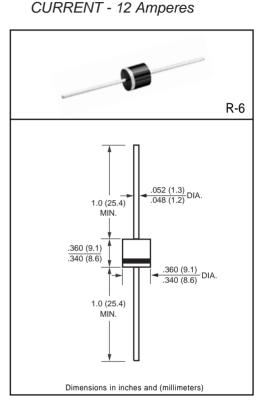
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant

For capacitive load, derate current by 20%.

* Lead: MIL-STD-202E, Method 208 guaranteed

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load.

- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 2.08 gram



		SYMBOL	12SQ030	12SQ040	12SQ050	12SQ060	12SQ080	12SQ100	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	12					Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	300					Amps	
Maximum Instantaneous Forward Voltage at 12A DC		VF	0.	0.55 0.7 0.8).8	Volts		
Maximum DC Reverse Current	@T _A = 25°C	IR	0.5						mAmps
at Rated DC Blocking Voltage	@T _A = 100°C		50						
Typical Thermal Resistance (Note 1)		Reuc	3.0						°C/W
Typical Junction Capacitance (Note 2)		CJ	450						pF
Storage and Operating Temperature Range		TJ, TSTG	-55 to +200						٥C

NOTES: 1. Thermal Resistance Junction to case

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

RATING AND CHARACTERISTIC CURVES (12SQ030 THRU 12SQ100)

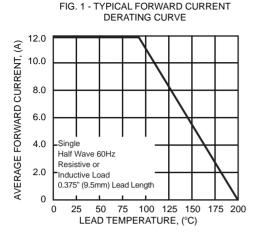


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

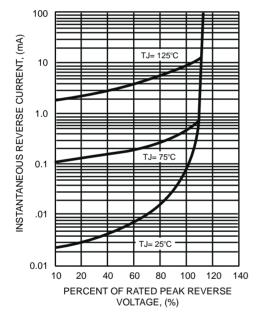
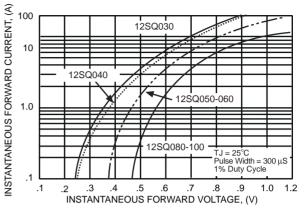
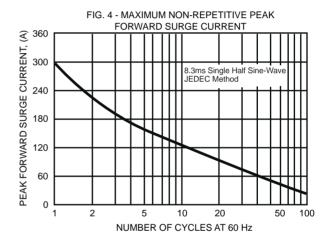
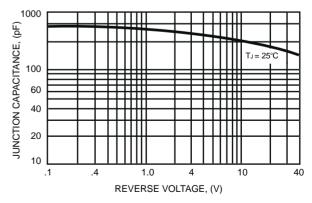


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS









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