

LOW Vf SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 0.5 Ampere

MEW REVEASE NEW REVEASE **FEATURES** * Low switching noise * Low forward voltage drop 1 * High current capability * High switching capability * High surge capabitity DO-41 * High reliability **MECHANICAL DATA** * Case: Molded plastic * Epoxy: Device has UL flammability classification 94V-O .034 (0.9) .028 (0.7) DIA * Lead: MIL-STD-202E method 208C guaranteed 1.0 (25.4) MIN * Mounting position: Any * Weight: 0.33 gram .205 (5.2) .107 (2.7) .080 (2.0) DIA. 1.0 (25.4) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS MIN Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	05N5817	05N5818	05N5819	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T _A =100°C	IO	0.5			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60			Amps
Typical Thermal Resistance (Note 3)	R _{0JA}	50			° C/W
	R _{0JL}	15			
Typical Junction Capacitance (Note 1)	CJ	110			pF
Operating Temperature Range	TJ	150			۰C
Storage Temperature Range	T _{STG}		°C		

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

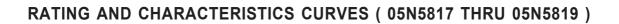
CHARACTERISTICS		SYMBOL	05N5817	05N5818	05N5819	UNITS	
Maximum Instantaneous Forward Voltage at 0.5A DC		VF	.30			Volts	
Maximum Average Reverse Current	@T _A = 25°C	In	1.0			mAmps	
at Rated DC Blocking Voltage	@T _A = 100°C	- ^I R		mAmps			
NOTES 1 Macaured at 1 MHz and applied reverse voltage of 4.0 volte							

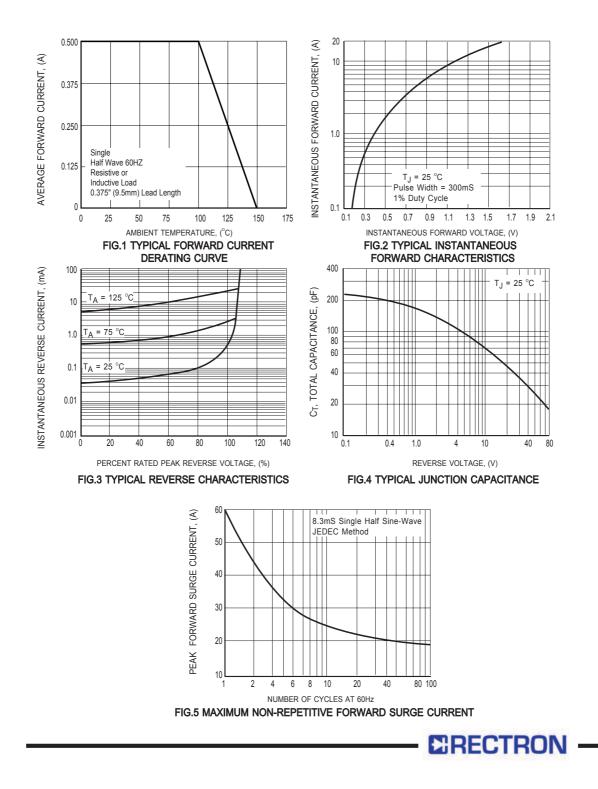
NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.

2006-11





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