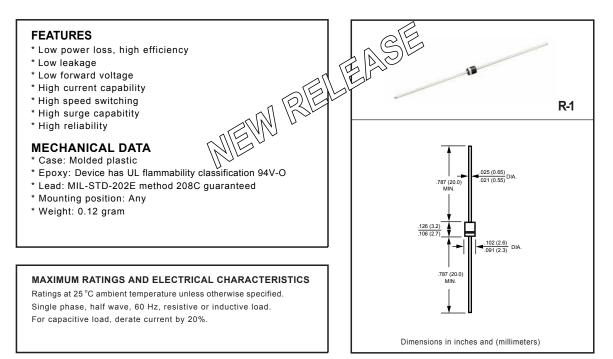




## SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 0.5 Ampere



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

RATINGS	SYMBOL	05N17	05N18	05N19	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length 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 <sub>FSM</sub>	60			Amps
Typical Thermal Resistance (Note 3)	R <sub>0JA</sub>	60			• C/W
	R <sub>0JL</sub>	20			
Typical Junction Capacitance (Note 1)	CJ	110			pF
Operating Temperature Range	TJ	150			٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150			۰C

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

CHARACTERISTICS		SYMBOL	05N17	05N18	05N19	UNITS	
Maximum Instantaneous Forward Voltage at 0.5A DC		VF	.30			Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	la la	1.0			mAmps	
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR IR		mAmps			

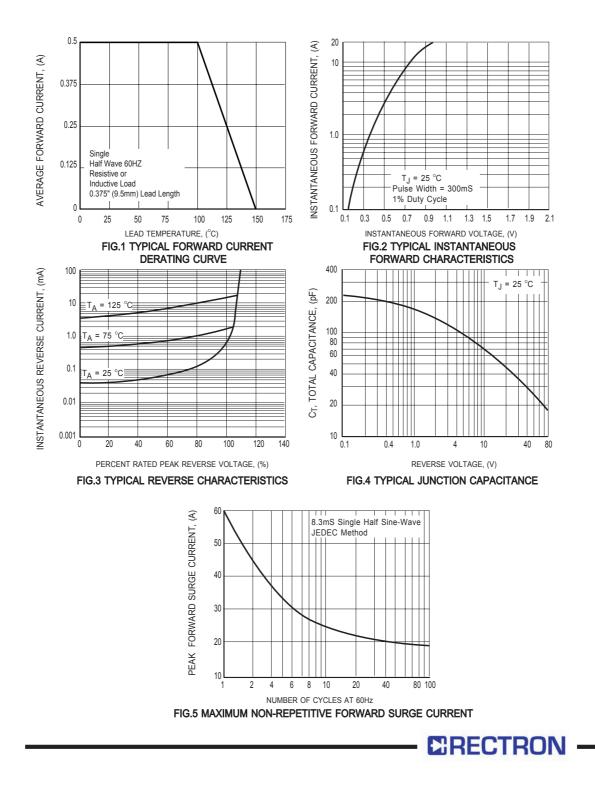
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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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