SCHOTTKY BARRIER RECTIFIER

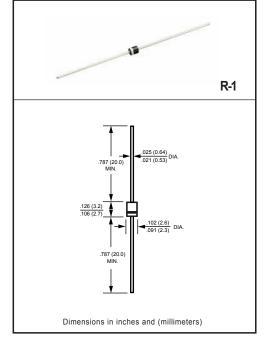
VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere

FEATURES

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.12 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	1S20	1S30	1S40	1S50	1S60	1S80	1S100	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length	lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	20						Amps	
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	60							- ° C/W
	$R_{\theta JL}$	20							
Typical Junction Capacitance (Note 1)	CJ	110							pF
Operating Temperature Range	TJ	150							۰c
Storage Temperature Range	T _{STG}	-55 to + 150						٥C	

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

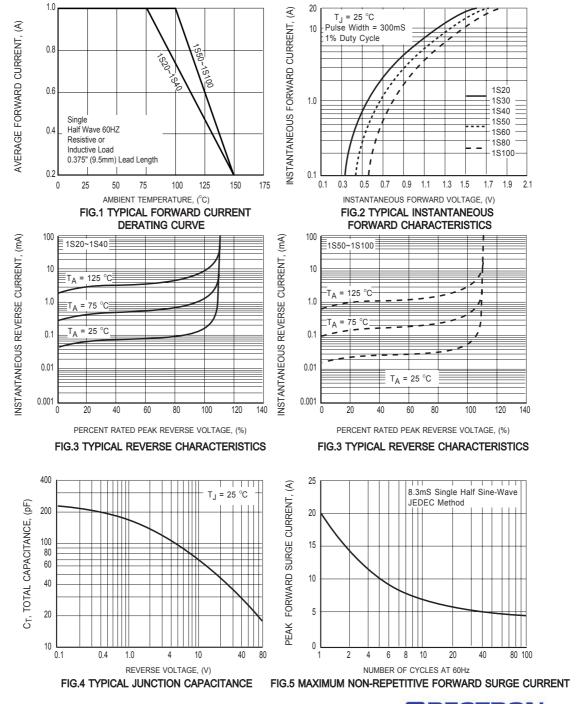
CHARACTERISTICS		SYMBOL	1S20	1S30	1S40	1S50	1S60	1S80	1S100	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V _F	.55		.70		.85		Volts	
Maximum Average Reverse Current	@T _A = 25°C		0.2							mAmps
at Rated DC Blocking Voltage	@T _A = 100°C	l R	10							mAmps

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

RATING AND CHARACTERISTICS CURVES (1S20 THRU 1S100)





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