-WILLAS



SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 1.0 Ampere

FEATURES

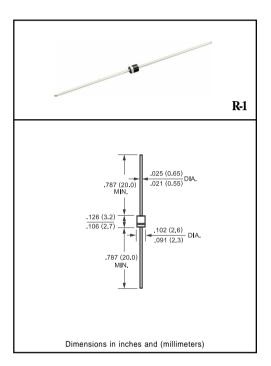
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.12 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.



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

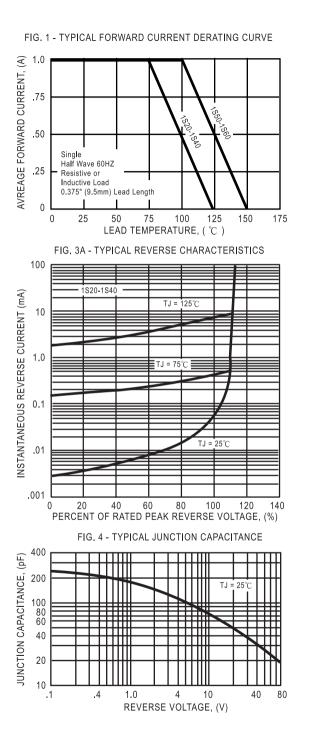
RATINGS	SYMBOL	1S20	1S30	1S40	1S50	1S60	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	Volts
Maximum RMS Voltage	Vrms	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length	ю	1.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps				
Typical Thermal Resistance (Note 1)	RθJA		°C/W				
Typical Junction Capacitance (Note 2)	CJ		pF				
Operating Temperature Range	TJ	-65 to + 125 -65 to + 150			° C		
Storage Temperature Range	Tstg	-65 to + 150					

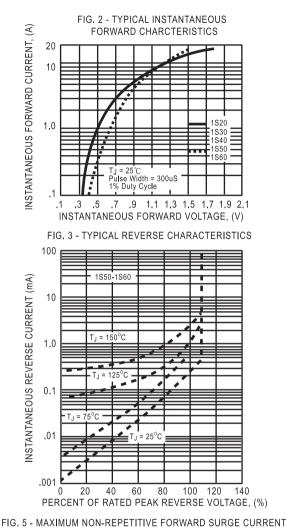
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

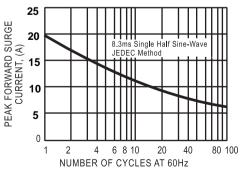
CHARACTERISTICS		SYMBOL	1S20	1S30	1S40	1S50	1S60	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.55		.65		Volts	
Maximum Average Reverse Current	@TA = 25°C	IR	0.5					mAmps
at Rated DC Blocking Voltage	@TA = 100°C	IR	10					mAmps

NOTES: 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length. 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (1S20 THRU 1S60)







WILLAS ELECTRONIC CORP.