

HITANO ENTERPRISE CORP.

RECTIFIER SPECIALSTS

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 60 Volts CURRENT -5.0 Amperes

FEATURES

*Metal to silicon rectifier majority carrier conduction

*Low power loss, High efficiency

*High current capability

*Low forward voltage drop

*High surge capacity

*For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

*Case: Molded Plastic

*Epoxy: UL 94V-0 rate flame retardant
*Terminals : Solder plated, solderable per

MIL-STD-750, Method 2026

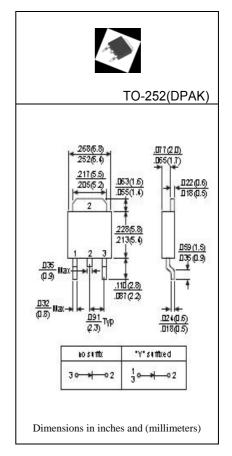
*Mounting position: Any
*Weight: 0.4 grams Approx.

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%.



		SYMB OL	SD520S	SD530S	SD540S	SD550S	SD560S	SD510 0S	SD51 00S	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		VRRS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current		lo	5.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100							Amps
Maximum instantaneous Forward Voltage at 2.0A DC		VF	0.55			0.75			85	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA =25℃	- IR	2.0							- mAmps
	@TA =100℃		50							
Typical Thermal Resistance (Note1)		ROJA	80							°C/w
Typical Junction Capacitance (Note2)		CJ	550							pF
Storage and Operating Temperature Range		TJ ,TS TG	~50to+125							$^{\circ}$

NOTE: 1.Mounted on PC Board with 14mm2 (0.013mm thick)copper pad areas.2.Measured at 1 MHz applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)

