



SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 0.5 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

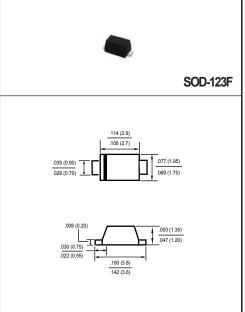
* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

- * Mounting position: Any
- * Weight: 0.016 gram



Dimensions in inches and (millimeters)

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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	05S2	05S3	05S4	05S5	05S6	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at T _A =55°C	I _O		Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}		Amps				
Typical Thermal Resistance (Note 3)	R _{0JA}	130					°C/W
	R _{0JL}						
Typical Junction Capacitance (Note 1)	CJ		pF				
Operating Temperature Range	TJ		۰C				
Storage Temperature Range	T _{STG}		٥C				

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

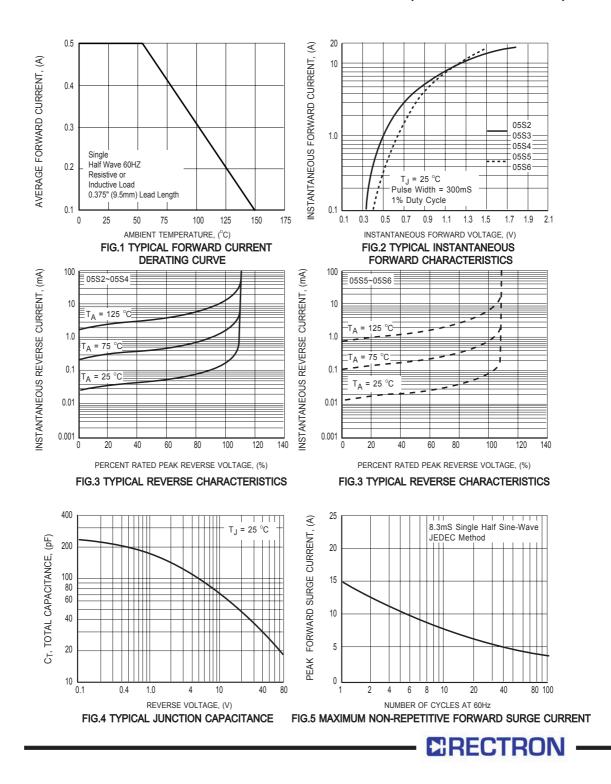
Maximum Instantaneous Especial Visitaneous 4.0.54 DO					05S5	05S6	UNITS
Maximum Instantaneous Forward Voltage at 0.5A DC	VF	.55 .70		0	Volts		
Maximum Average Reverse Current @T _A = 25°C	la la	0.2					mAmps
at Rated DC Blocking Voltage @T _A = 100°C	IR -	10					mAmps

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

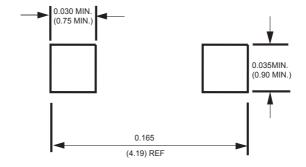
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance : Mounted on PCB.

2006-11



Mounting Pad Layout



Dimensions in inches and (millimeters)



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