SURFACE MOUNT FAST RECOVERY RECTIFIER

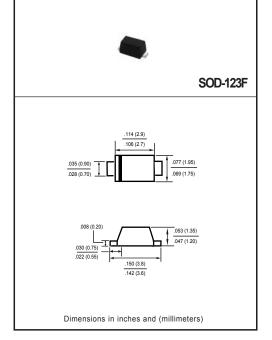
VOLTAGE RANGE 20 to 60 Volts CURRENT 0.5 Ampere

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
- * Mounting position: Any
- * Weight: 0.016 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 (@ TA=25 °C unless otherwise noted)

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	lo	0.5					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	15					
Typical Thermal Resistance (Note 3)	R _θ JA	130					° C/W
	R ₀ JL	30					
Typical Junction Capacitance (Note 1)	CJ	110					pF
Operating Temperature Range	TJ	150					۰c
Storage Temperature Range	T _{STG}	-55 to + 150					°C

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

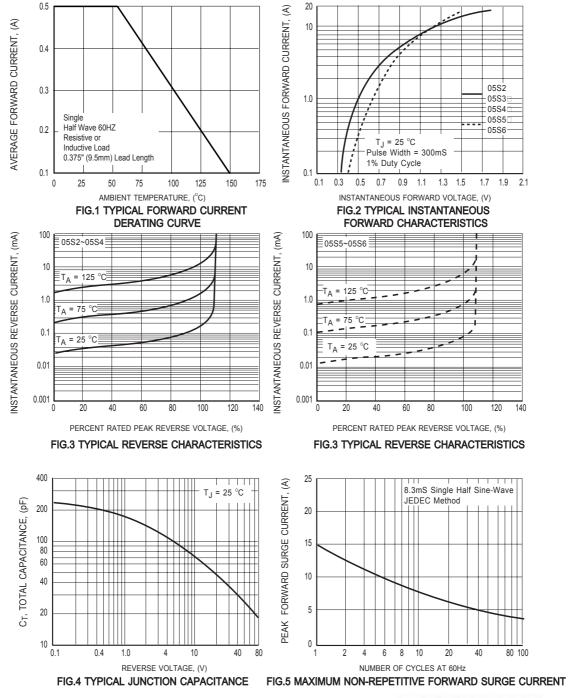
CHARACTERISTICS		SYMBOL	05S2	05S3	05S4	05S5	05S6	UNITS			
Maximum Instantaneous Forward Voltage at 0.5A DC		V _F	.55		.70		Volts				
Maximum Average Reverse Current	@T _A = 25°C	le le	0.2					mAmps			
at Rated DC Blocking Voltage	@T _A = 100°C	I _R		mAmps							

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.

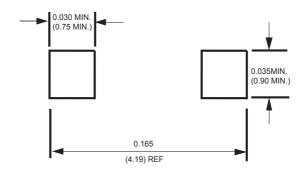
2006-11

RATING AND CHARACTERISTICS CURVES (05S2 THRU 05S6)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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