

05SSL20L THRU 05SSL40L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

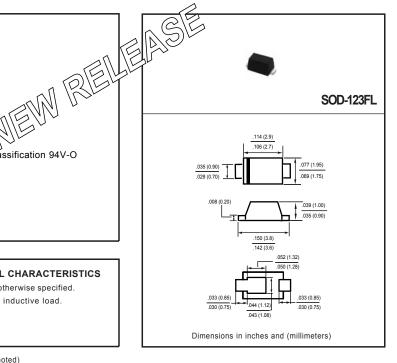
VOLTAGE RANGE 20 to 40 Volts CURRENT 0.5 Ampere

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	05SSL20L	05SSL30L	05SSL40L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	40	40	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at T _A =100°C	Io	0.5			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60			Amps
Typical Junction Capacitance (Note1)	CJ	110			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	110			° C/W
	$R_{\theta JL}$	30			
Operating Temperature Range	TJ	150			٥C
Storage Temperature Range	T _{STG}	-55 to + 150			٥C

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

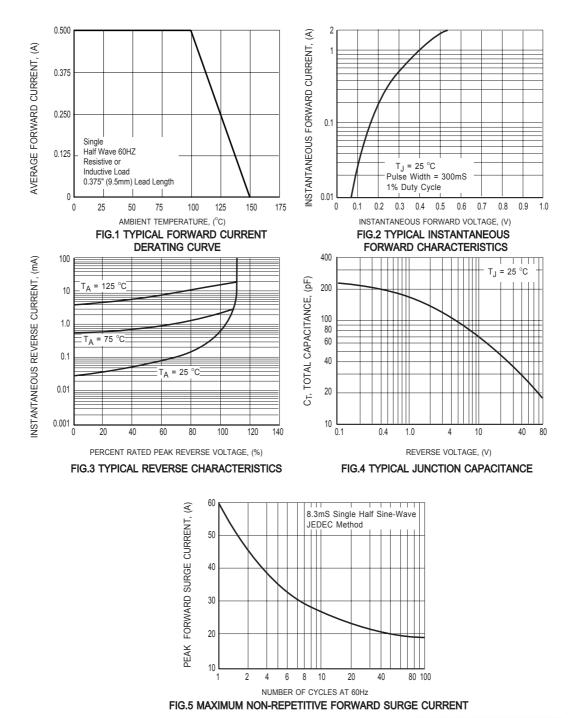
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CHARACTERISTICS		SYMBOL	05SSL20L	05SSL30L	05SSL40L	UNITS			
Maximum Instantaneous Forward Voltage at 0.5A DC		V _F	0.30			Volts			
Maximum Average Reverse Current	@T _A = 25°C	la.	1.0			mAmps			
at Rated DC Blocking Voltage	@T _A = 100°C	IR IR		mAmps					

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

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- ${\it 3. Thermal\ resistance: Mounted\ on\ PCB.}$

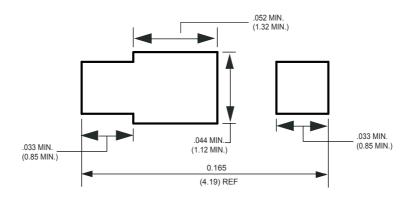
2006-11

RATING AND CHARACTERISTICS CURVES (05SSL20L THRU 05SSL40L)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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