

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 200 Volts CURRENT 1.0 Ampere

FEATURES

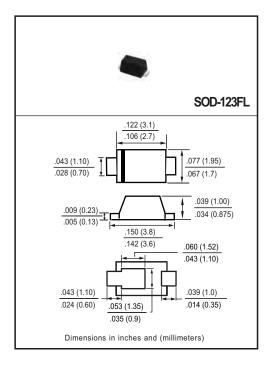
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability
- * Guard ring construction on dice
- * Anti-ESD
- * P/N suffix V means AEC-Q101 qualified, e.g:SS200LV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight: 0. 01 gra m (Approx.)
- * Flat lead frame

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load.



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

RATINGS	SYMBOL	SS200LV	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	Volts	
Maximum RMS Voltage	V _{RMS}	140	Volts	
Maximum DC Blocking Voltage	V _{DC} 200		Volts	
Maximum Average Forward Rectified Current @ T _A =100°C	Io	1.0	Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM} 25		Amps	
Typical Current Square Time	I ² T	1.66	A ² S	
Typical Thermal Resistance (Note 3)	R _{θ JA}	110	°C/W	
Typical Thermal Resistance (Note 3)	R _{θJL}	30		
Operating Temperature Range	TJ	150	°C	
Storage Temperature Range	T _{STG}	-55 to + 150	٥C	
Total Capacitance (Note 1)	Ст	75	pF	

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

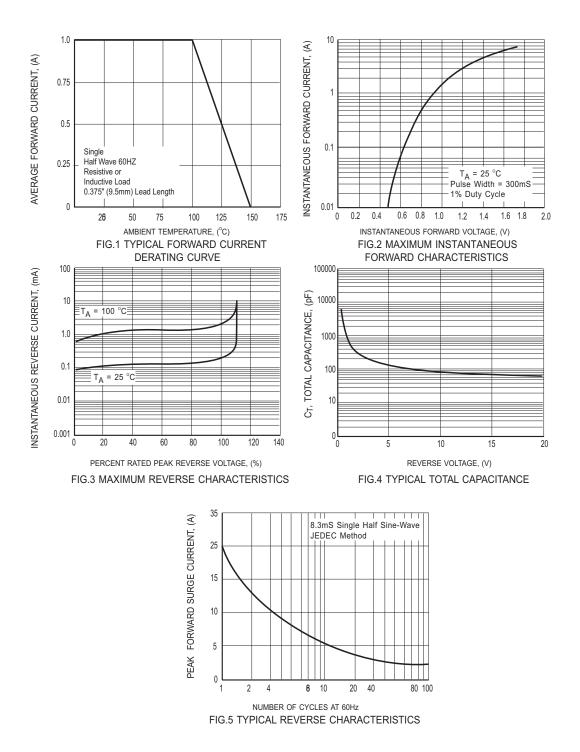
CHARACTERISTICS		SYMBOL	SS200LV	UNITS
Maximum Instantaneous Forward Voltage at 1.0A	DC	VF	0.9	Volts
Maximum Average Reverse Current	@TA = 25°C		0.2	mA
at Rated DC Blocking Voltage	@Ta = 100°C	I IR	2	mA

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4 Volts.

- 2. "RoHS compliant
- Thermal Resistance: Mounted on PCB.

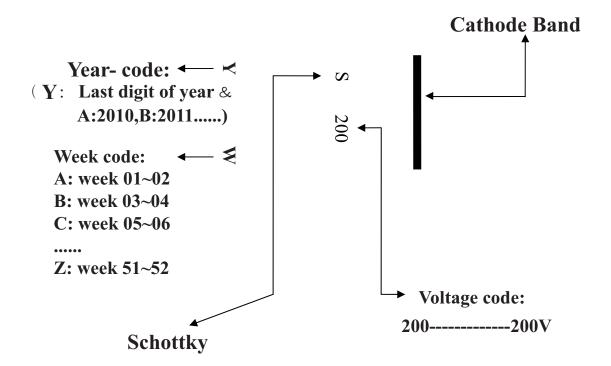
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RATING AND CHARACTERISTICS CURVES (SS200LV)





Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-123F/ SOD-123FL	-W	3,000	15,000			178	390*205*31	120,000	6.964

REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-SOD-123FL

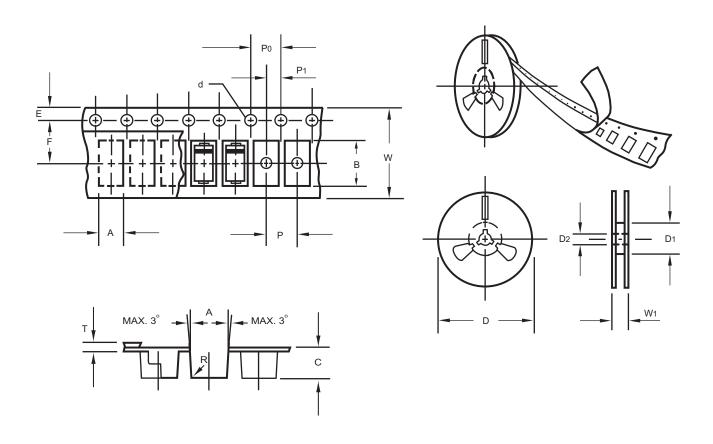


Fig.: Configuration of SOD-123FL TAPING

ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Carrier width	А	2.05 ± 0.05	0.081±0.002
Carrier length	В	3.85 ± 0.1	0.152±0.004
Carrier depth	С	1.15 ± 0.1	0.045±0.004
Sprocket hole	d	1.55 ± 0.05	0.061±0.002
Reel outside diameter	D	178 ± 2.0	7.01±0.039
Reel inner diameter	D1	60 Min.	2.363 Min.
Feed hole diameter	D2	13.0 ± 0.5	0.512±0.020
Strocket hole position	E	1.75 ± 0.1	0.069±0.004
Punch hole position	F	3.50 ± 0.05	0.138±0.002
Punch hole pitch	Р	4.00 ± 0.1	0.158±0.004
Sprocket hole pitch	Po	4.00 ± 0.1	0.158±0.004
Embossment center	P1	2.00 ± 0.05	0.079±0.002
Totall tape thickness	T	0.3 ± 0.05	0.012±0.002
Tape width	W	8.00 ± 0.3	0.315±0.012
Reel width	W1	11.4 ± 0.5	0.449±0.020

Note: Devices are packed in accordance with EIA standard RS-481-D and specification given above.

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