

S1X SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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http://www.cenxelec.com.cn

S12 THRU S120



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

20 to 200 VOLTS 1.0 AMPERE

FEATURES

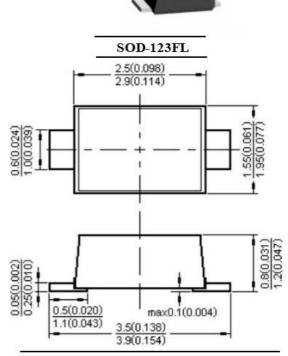
- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · High current capacity
- · Built-in strain relief
- · Low profile package
- · Metal to silicon rectifier. majority carrier conduction
- · High surge capacity
- · Low power loss, high efficiency
- · For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic, SOD-123FL Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band

Packaging: 8mm tape per EIA STD RS-481

Weight: 0.022 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	S12	S13	S14	S15	S16	S19	S110	S115	S120	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	90	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	63	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	150	200	Volts
Maximum Average Forward Rectified Current	I(AV)	1.0									Amp
at T _L (See Fig. 1)	I(AV)										
Peak Forward Surge Current,											
8.3ms single half-sine-wave	Ifsm			30						Amp	
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage at 1.0A (Note 1)	V _F	0.55			0.	0.75		0.80		0.95	
Maximum Reverse Current at T₁=25°C	IR	0.5									mAmp
at Rated DC Blocking Voltage T _A =125°C	20										
Typical Thermal Resistance (Note 2)	R _θ JA	100									°C/W
	$\mathbf{R}_{ heta \mathrm{JL}}$	45									
Operating Junction Temperature Range	Тյ	-55 to +150									ဗ
Storage Temperature Range	Tstg	-55 to +150									c

NOTES: 1- Pulse test: 300µs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

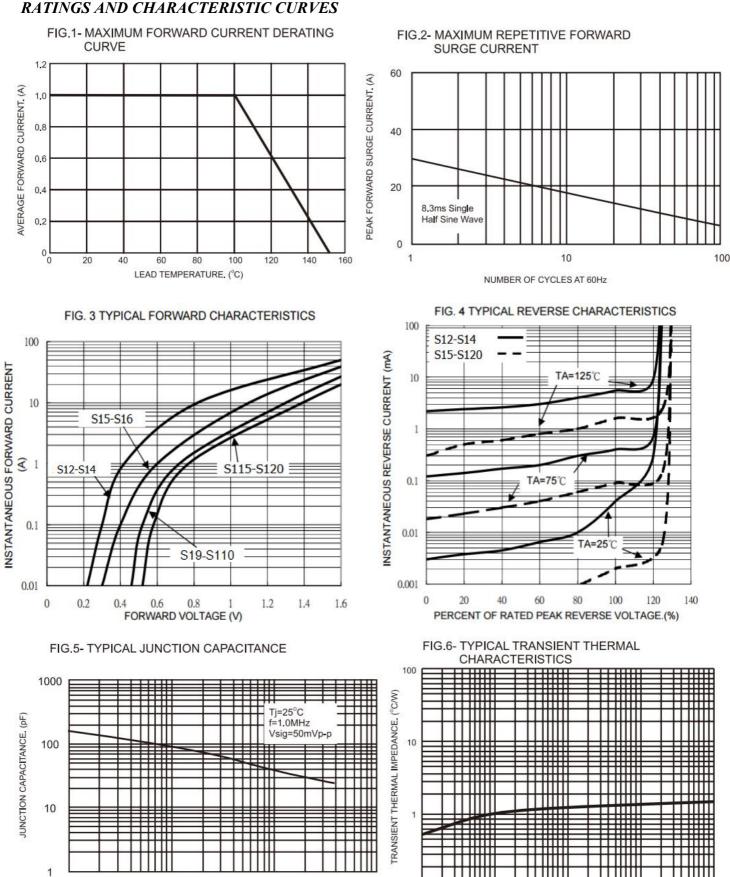
0.1

1

REVERSE VOLTAGE. (V)

10





0.1

0.01

0.1

100

T, PULSE DURATION. (sec)