

**SSCD102LSH AND SSCD104LSH**
**● FEATURES**

- \* Halogen-free type
- \* Compliance to RoHS product
- \* Lead less chip form, no lead damage
- \* Low power loss, High efficiency
- \* High current capability
- \* Low forward voltage drop
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

**● APPLICATION**

- \* Switching mode power supply applications
- \* Portable equipment battery applications
- \* High frequency rectification
- \* DC / DC Converter
- \* Telecommunication

**● MECHANICAL DATA**

**Case :** Packed with FRP substrate and epoxy underfilled

**Terminals :** Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.

**Polarity :** Laser Cathode band marking

**Weight :** 0.012 gram

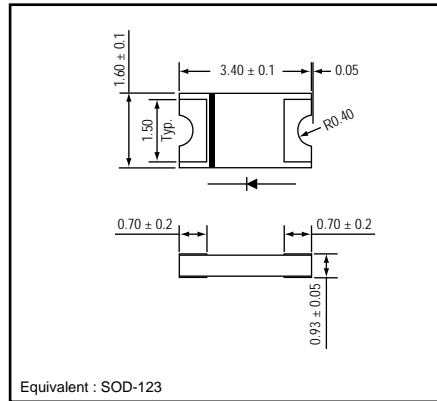
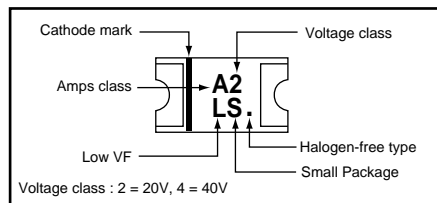
**● PACKING**

- \* 3,000 pieces per 7" (178mm ± 2mm) reel
- \* 4 reels per box
- \* 6 boxes per carton

**● OUTLINE DIMENSIONS**

**Case : 1206-S**

Unit : mm

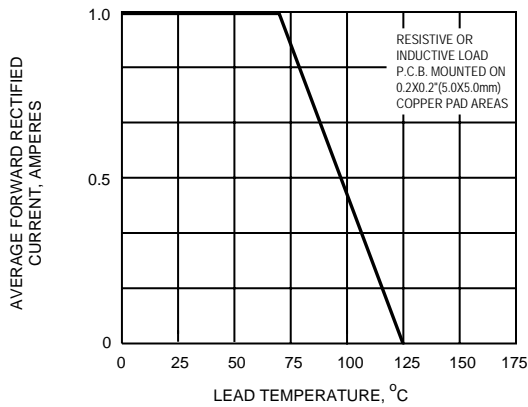
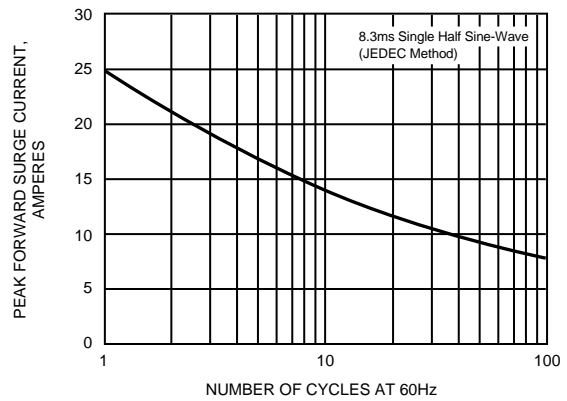
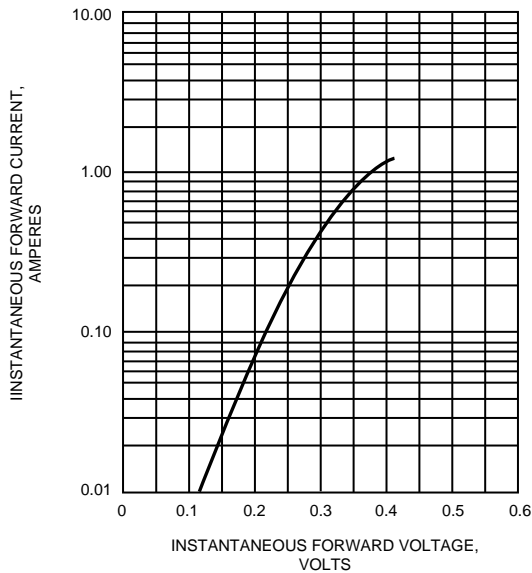
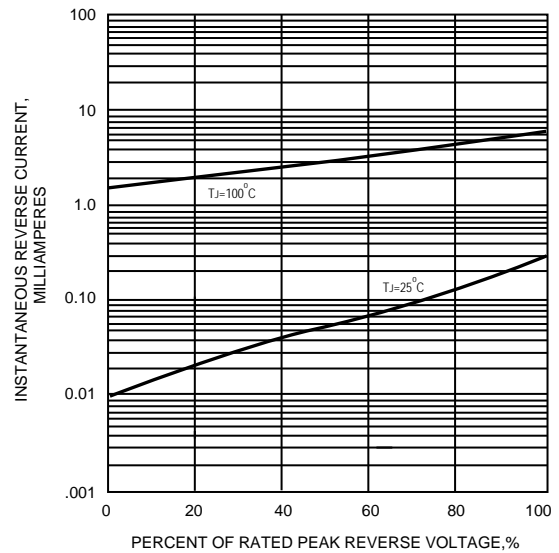

**● MARKING**

**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Conditions	Rating		Unit
			SSCD102LSH	SSCD104LSH	
Repetitive peak reverse voltage	V <sub>RRM</sub>		20	40	V
Average forward current	I <sub>F(AV)</sub>		1.0		A
Peak forward surge current	I <sub>FSM</sub>	8.3ms single half sine-wave	25		A
Operating junction temperature Range	T <sub>j</sub>		-55 to +125		°C
Storage temperature Range	T <sub>STG</sub>		-55 to +150		°C

**Electrical characteristics (Ta = 25 °C)**

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage (NOTE 1)	V <sub>F</sub>	I <sub>F</sub> = 0.5A I <sub>F</sub> = 1.0A		-	0.31 0.37	- 0.38	V
Repetitive peak reverse current (NOTE 1)	I <sub>RRM</sub>	V <sub>R</sub> = Max. V <sub>RRM</sub> , T <sub>a</sub> = 25 °C		-	0.30	1.0	mA
Junction capacitance	C <sub>j</sub>	V <sub>R</sub> = 4V, f = 1.0 MHz		-	115	-	pF
Thermal resistance	R <sub>th(JA)</sub>	Junction to ambient (NOTE 2)		-	88	-	°C/W
	R <sub>th(JL)</sub>	Junction to lead (NOTE 2)		-	28	-	°C/W

- NOTES : (1) Pulse test width PW=300usec , 1% duty cycle.  
 (2) Mounted on P.C. board with 0.2 x 0.2"(5.0 x5.0mm) copper pad areas.  
 (3) Preliminary draft.

**FIG.1 - FORWARD CURRENT DERATING CURVE**

**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**

**FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**

**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

**FIG.5 - TYPICAL JUNCTION CAPACITANCE**
