

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Lead less chip form, no lead damage
- Lead-free solder joint, no wire bond & lead frame
- Low power loss, High efficiency
- High current capability, low VF
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

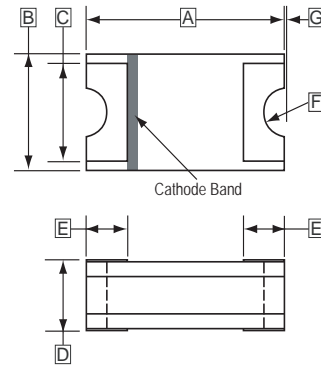
APPLICATION

- Switching mode power supply applications
- Portable equipment battery applications
- General rectification
- DC / DC converter

MECHANICAL DATA

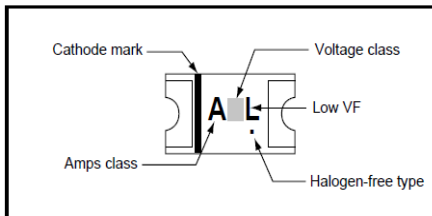
- Case: Packed with FRP substrate and epoxy underfilled
- Terminals: Pure tin-plated (lead-free), solderable per MIL-STD-750, method 2026.
- Polarity: Laser cathode band marking
- Weight : 0.012 gram

1206



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.20	3.60	E	0.50	0.90
B	1.70	2.10	F	R 0.40	
C	1.60 TYP.		G	0.05 REF.	
D	0.86	1.16			

MARKING



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameters	Symbol	Part Number		Unit
		SSCD102L	SSCD104L	
Repetitive Peak reverse voltage	V _{RRM}	20	40	V
Maximum Average Forward Current	I _{F(AV)}	1		A
Peak Forward Current @ 8.3 ms half sine-wave	I _{FSM}	25		A
Forward voltage ¹ @ I _F =1A	V _F	0.38		V
Repetitive peak reverse current ¹ @ V _R =Max. V _{RRM} , T _A =25°C	I _{RRM}	1		mA
Typical Junction capacitance @ V _R =4V, f =1.0MHz	C _J	115		pF
Typical Thermal Resistance – Junction to Ambient ²	R _{θJA}	88		°C / W
Typical Thermal Resistance – Junction to Lead ²	R _{θJL}	28		
Operating Temperature Range	T _J	-55 ~ 125		°C
Storage temperature	T _{STG}	-55 ~ 150		°C

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.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

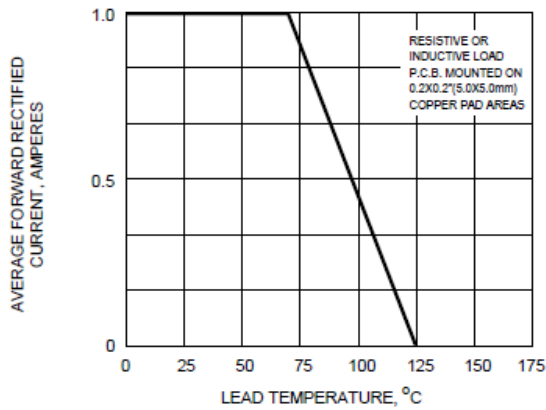


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

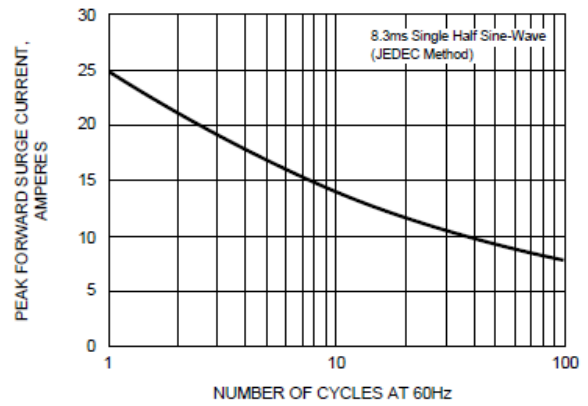


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

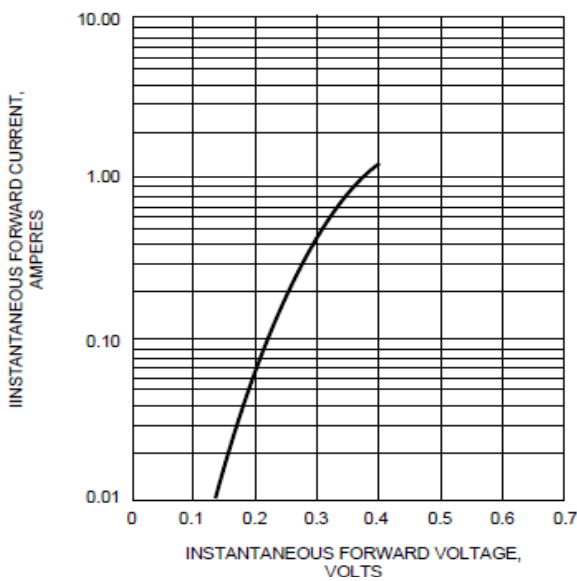


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

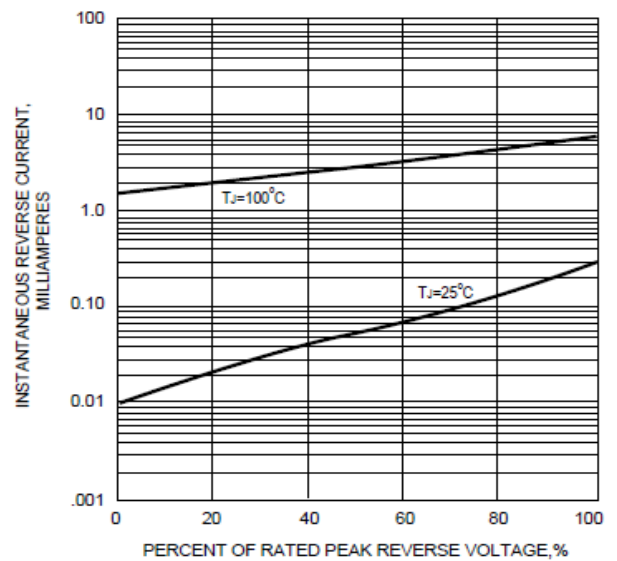


FIG.5 - TYPICAL JUNCTION CAPACITANCE

