

CAN CIRCLE SEMI SMAF Plastic-Encapsulate Diodes

CSD12SMAF THRU CSD120SMAF

Schottky Rectifier Diodes

Features

• I_{F(AV)} 1A

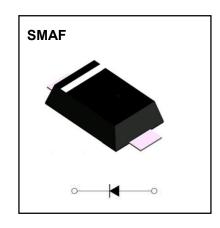
• V_{RRM} 20V-200V

• High surge current capability

Polarity: Color band denotes cathode

Applications

Rectifier



Limiting Values(Absolute Maximum Rating)

	Symbol	Unit			CSD1									
ltem			Test Conditions	2	3	4	5	6	8	10	15	20		
Repetitive Peak Reverse Voltage	V_{RRM}	٧		20	30	40	50	60	80	100	150	200		
Maximum RMS Voltage	V _{RMS}	>		14	21	28	35	42	56	70	105	140		
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave , Resistance load , TL(Fig.1)	1.0										
Surge(Non-repetitive)Forward Current	I _{FSM}	Α	60Hz Half-sine wave, 1 cycle,Ta=25℃	30										
Junction Temperature	TJ	$^{\circ}$		-55~+125 -55~+150										
Storage Temperature	T _{STG}	$^{\circ}$		-55 ~ +150										

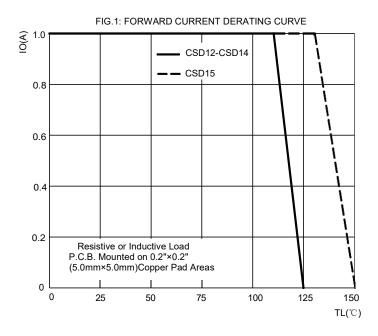
Electrical Characteristics (T =25°C UnleCSD otherwise specified)

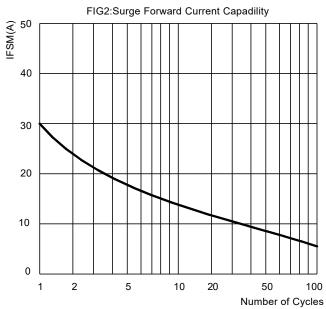
14	Comple of	11	Tool C	CSD1										
Item	Symbol	Unit	Test C	2	3	4	5	6	8	10	15	20		
Peak Forward Voltage	V _F	V	I _F =		0.55		0	.70	0.85		0.95			
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃			0.5			0.1				
	I _{RRM2}	IIIA		Ta =100℃		10				5.0				
Thermal Resistance(Typical)	R _{θJ-A}	℃/	Between junc		88									
	R _{0J-L}	W	Between junc	28										

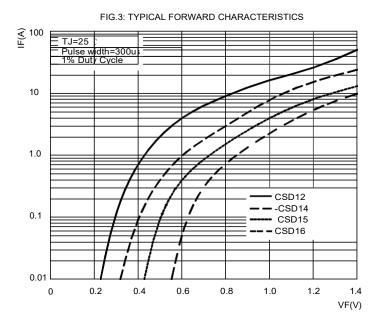
Notes:

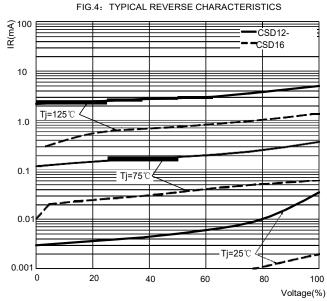
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" \times 0.2" (5.0 mm \times 5.0 mm) copper pad areas

Typical Characteristics

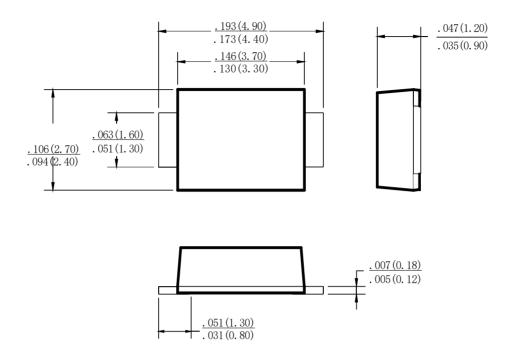






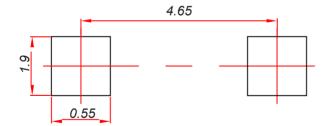


SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)

SMAF Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

Notice

Specifications of the products displayed herein are subject to change without notice. CCS or anyone on its behalf, aCSDumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, expreCSD or implied, to any intellectual property rights is granted by this document. Except as provided in CCS terms and conditions of sale for such products, CCS aCSDumes no liability whatsoever, and disclaims any expreCSD or implied warranty, relating to sale and/or use of CCS products including liability or warranties relating to fitneCSD for a particular purpose, merchant ability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or lifesustaining applications.

Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify CCS for any damages resulting from such improper use or sale.