

# CAN CIRCLE SEMI SMAF Plastic-Encapsulate Diodes

# CSD22F THRU CSD220F

### **Schottky Rectifier Diodes**

#### **Features**

• I<sub>F(AV)</sub> 2A

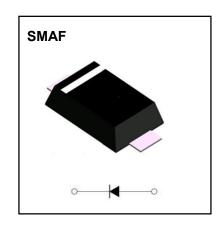
• V<sub>RRM</sub> 20V-200V

High surge current capability

Polarity: Color band denotes cathode

### **Applications**

Rectifier



### **Limiting Values(Absolute Maximum Rating)**

16	Symbol	Unit		CSD2									
ltem			Test Conditions		3F	4F	5F	6F	8F	10F	15F	20F	
Repetitive Peak Reverse Voltage	$V_{RRM}$	٧		20	30	40	50	60	80	100	150	200	
Maximum RMS Voltage	V <sub>RMS</sub>	>		14	21	28	35	42	56	70	105	140	
Average Forward Current	I <sub>F(AV)</sub>	A	60Hz Half-sine wave , Resistance load , TL(Fig.1)	2.0									
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	А	60Hz Half-sine wave , 1 cycle , Ta=25°C	50									
Junction Temperature	TJ	$^{\circ}$		-5	-55~+125 -55~+150								
Storage Temperature	T <sub>STG</sub>	$^{\circ}$		-55 ~ +150									

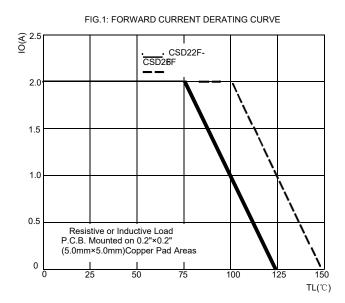
### Electrical Characteristics (T =25°C UnleCSD otherwise specified)

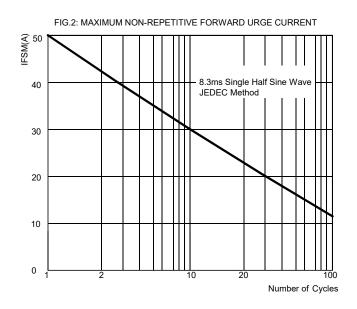
Item	Symbol	Unit	Test Condition			CSD 2										
						3F	4F	5F	6F	8F	10F	15F	20F			
Peak Forward Voltage	V <sub>F</sub>	٧	I <sub>F</sub> =		0.55		0	.70	0.85		0.95					
Peak Reverse Current	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta =25℃	0.5					0.1						
	I <sub>RRM2</sub>	IIIA		T <sub>a</sub> =100℃		10				5.0						
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/	Between junc	ction and ambient				75								
	R <sub>θJ-L</sub>	W	Between junction and terminal			17										

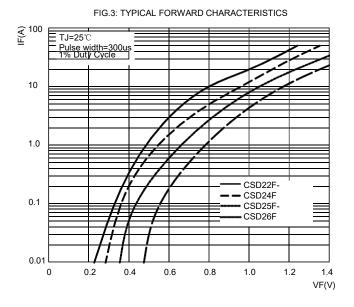
#### Notes:

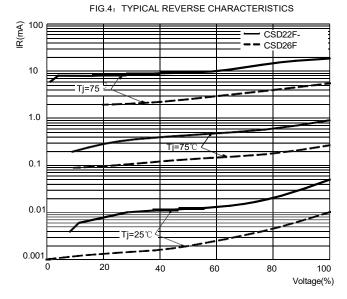
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

# **Typical Characteristics**

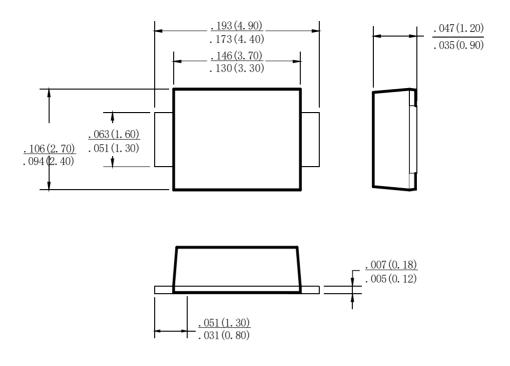






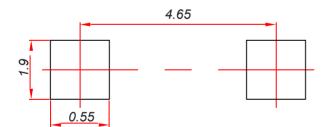


# **SMAF Package Outline Dimensions**



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.

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