

CAN CIRCLE SEMI SMAF Plastic-Encapsulate Diodes

CSD32SMAF THRU CSD320SMAF

Schottky Rectifier Diodes

Features

• I_{F(AV)} 3A

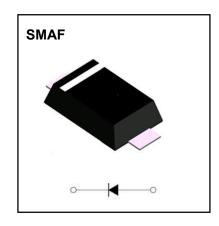
● V_{RRM} 20V-200V

High surge current capability

Polarity: Color band denotes cathode

Applications

Rectifier



Limiting Values(Absolute Maximum Rating)

lá a una	Symbol	Unit		CSD3									
Item			Test Conditions	2F	3F	4F	5F	6F	8F	10F	15F	20F	
RepetitivePeakReverseVoltage	V_{RRM}	٧		20	30	40	50	60	80	100	150	200	
Maximum RMS Voltage	V RMS	٧		14	21	28	35	42	56	70	105	140	
Average Forward Current	I _{F(AV)}	Α	60Hz Half-sine wave , Resistance load , TL(Fig.1)	3.0									
Surge(Non-repetitive)Forward Current	I _{FSM}	Α	60Hz Half-sine wave, 1 cycle,Ta=25°C	70									
Junction Temperature	T_J	$^{\circ}$		-55~+125 -55~+150									
Storage Temperature	T _{STG}	$^{\circ}$		-55 ~ + 150									

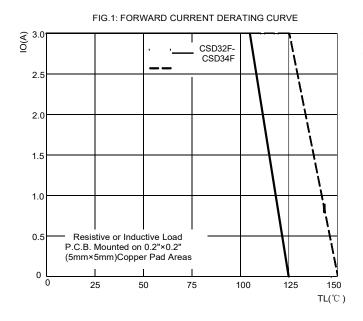
Electrical Characteristics (T =25°C UnleCSD otherwise specified)

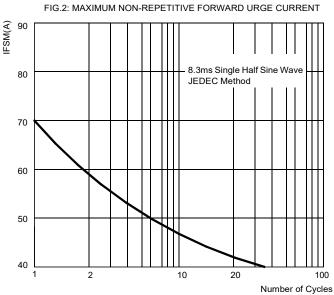
14	0	Unit	T40	CSD3									
Item	Symbol		Test Condition			3F	4F	5F	6F	8F	10F	15F	20F
Peak Forward Voltage	V _F	V	I _F =		0.55	0.55 0.70			0.85		0.95		
Peak Reverse Current	I _{RRM1}	m 1	V _{RM} =V _{RRM}	Ta =25℃			0.5			0.1			
	I _{RRM2}	mA		Ta =100℃		10				5.0			
Thermal Resistance(Typical)	R _{θJ-A}	°C/	Between junc	55									
	R _{θJ-L}	W	Between junction and terminal			17							

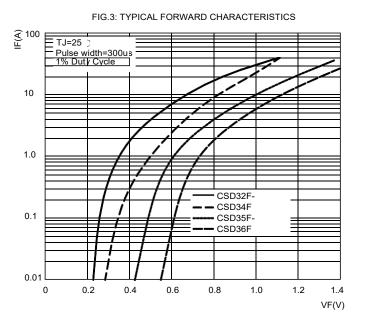
Notes:

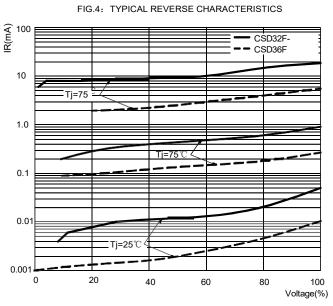
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" \times 0.2" (5.0 mm \times 5.0 mm) copper pad areas

Typical Characteristics

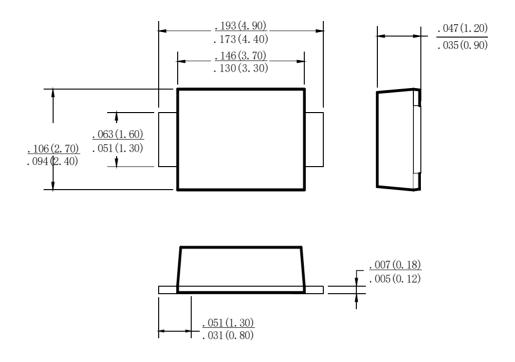






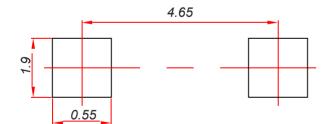


SMAF Package Outline Dimensions



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.

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