

CSD24S

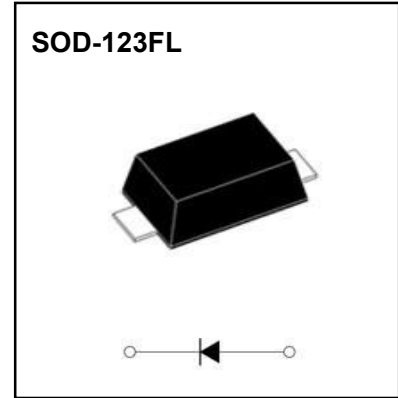
Schottky Rectifier Diode

Features

- $I_{F(AV)}$ 2A
- V_{RRM} 40V
- High surge current capability
- Polarity: Color band denotes cathode
- Low peak forward voltage

Applications

- Rectifier



Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	CSD24S
Repetitive Peak Reverse Voltage	V_{RRM}	V		40
Maximum RMS Voltage	V_{RMS}	V		32
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=125^{\circ}C$	2.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	70
Junction Temperature	T_J	$^{\circ}C$		-55 ~ +150
Storage Temperature	T_{STG}	$^{\circ}C$		-55 ~ +150

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

Item	Symbol	Unit	Test Condition		CSD24S	
Peak Forward Voltage	V_F	V	$I_F=1.0A$	$T_a=25^{\circ}C$	0.40(TYP)	0.42(MAX)
			$I_F=2.0A$		0.44(TYP)	0.46(MAX)
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.02(TYP)	0.1(MAX)
	I_{RRM2}			$T_a=100$	10	
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient		88	
	$R_{\theta J-L}$		Between junction and lead		22	

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

FIG.1: FORWARD CURRENT DERATING CURVE

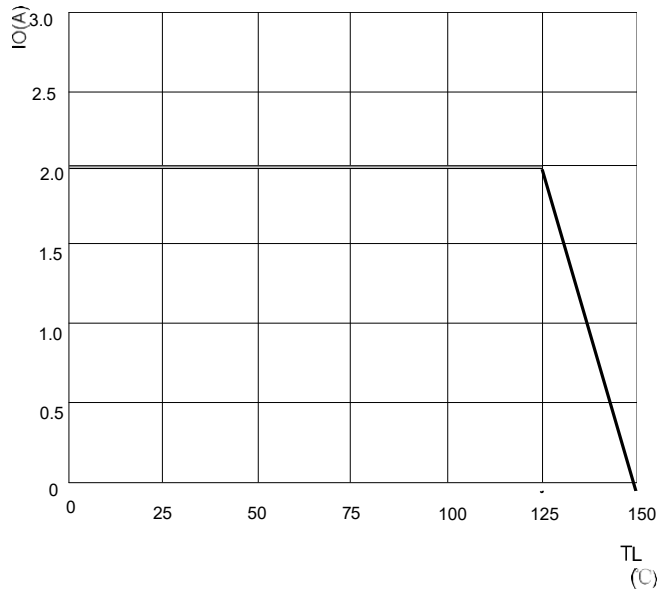


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

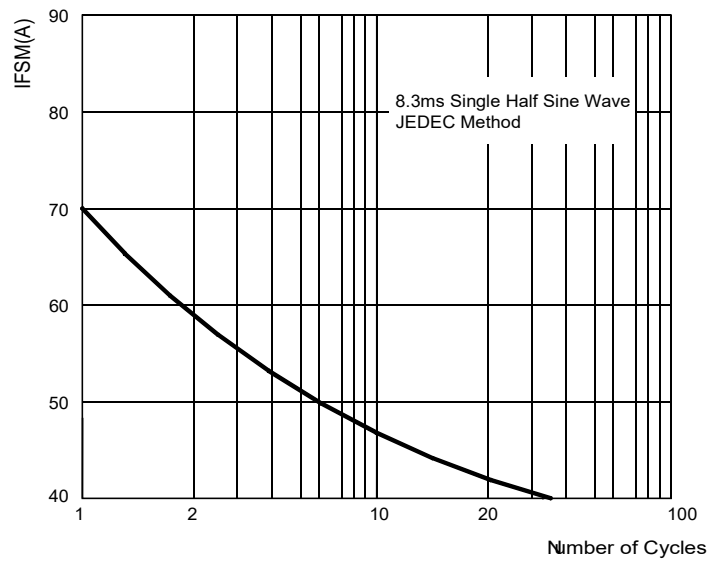


FIG.3: TYPICAL FORWARD CHARACTERISTICS

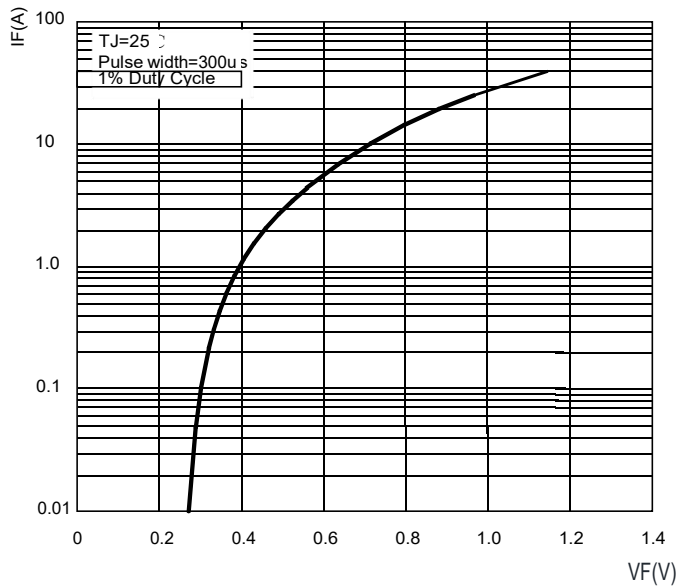
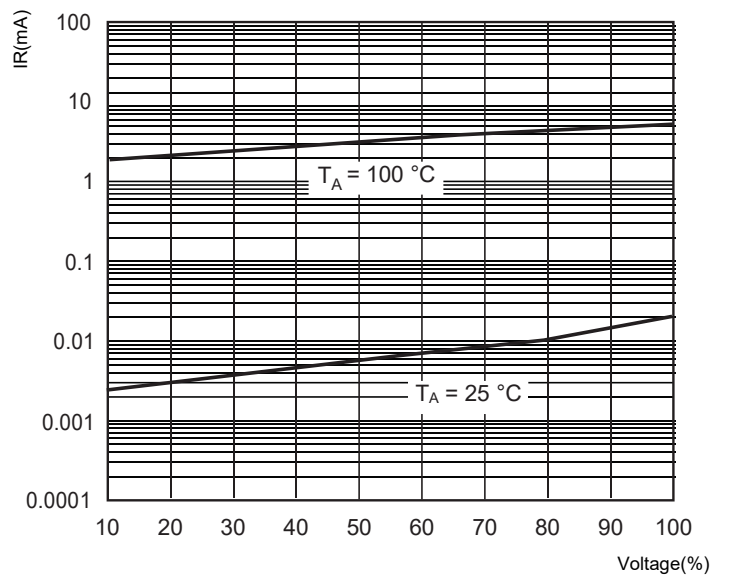
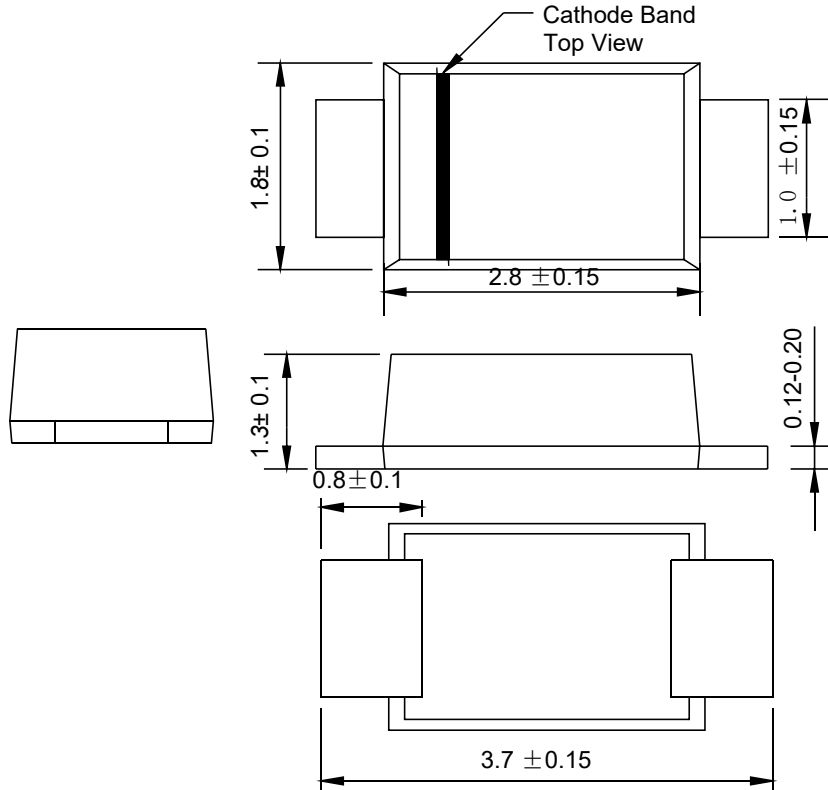


FIG.4: TYPICAL REVERSE CHARACTERISTICS

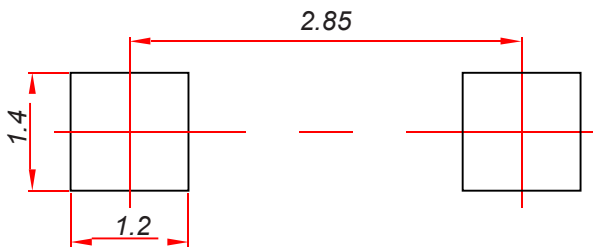


SOD-123FL Package Outline Dimensions



Dimensions in millimeters

SOD-123FL Suggested Pad Layout



Note:

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

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