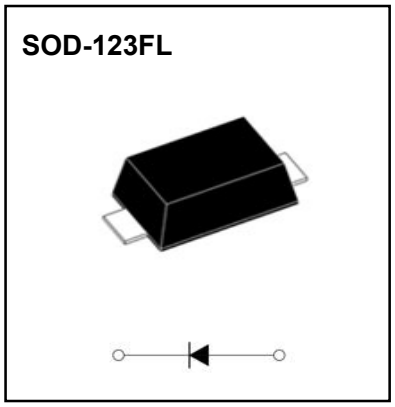
SZCJ

SOD-123FL Plastic-Encapsulate Diodes

DSS34L Schottky Rectifier Diodes

Features

- $I_{F(AV)}$ 3A
- V_{RRM} 40V
- High surge current capability
- Polarity: Color band denotes cathode



Applications

- Rectifier

Marking

- DSS34L : S34L

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	DSS34L
Repetitive Peak Reverse Voltage	V_{RRM}	V		40
Maximum RMS Voltage	V_{RMS}	V		28
Maximum DC Blocking Voltage	V_{DC}	V		40
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load	3.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave,1 cycle, Ta=25℃	70
Junction Temperature	T_J	℃		-55~+125
Storage Temperature	T_{STG}	℃		-55~+150

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

Item	Symbol	Unit	Test Condition		DSS34L
Peak Forward Voltage	V_F	V	IF=3A	Ta=25℃	0.45
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.5
	I_{RRM2}			Ta=100℃	50
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		50
	$R_{\theta J-L}$		Between junction and lead		8
Typical Junction Capacitance	C_J	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C.		400

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on 1" x 1"(25.4mm x 25.4mm) FR4 PCB, double sided copper, with minimum pad layout

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

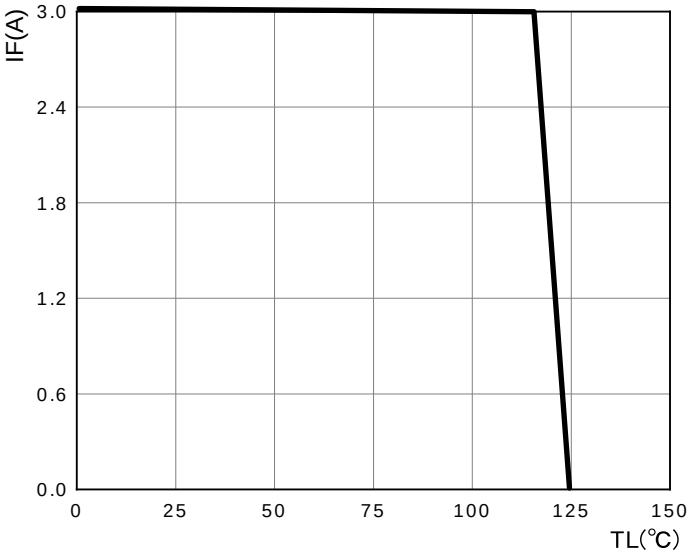


FIG 2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

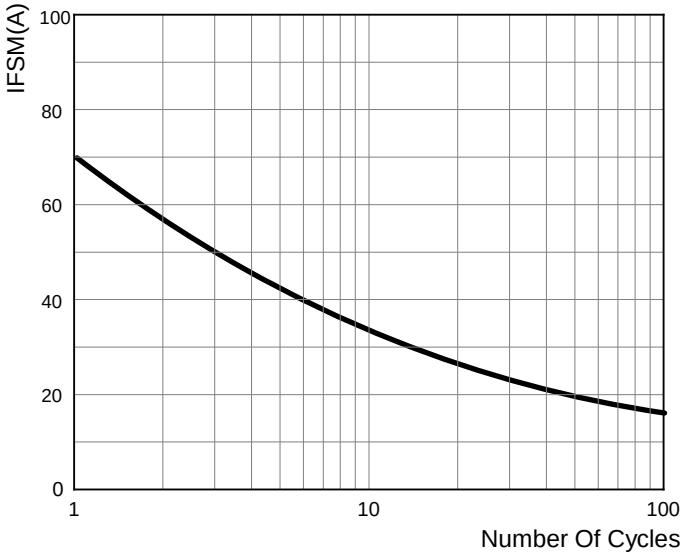


FIG.3 : TYPICAL FORWARD CHARACTERISTICS

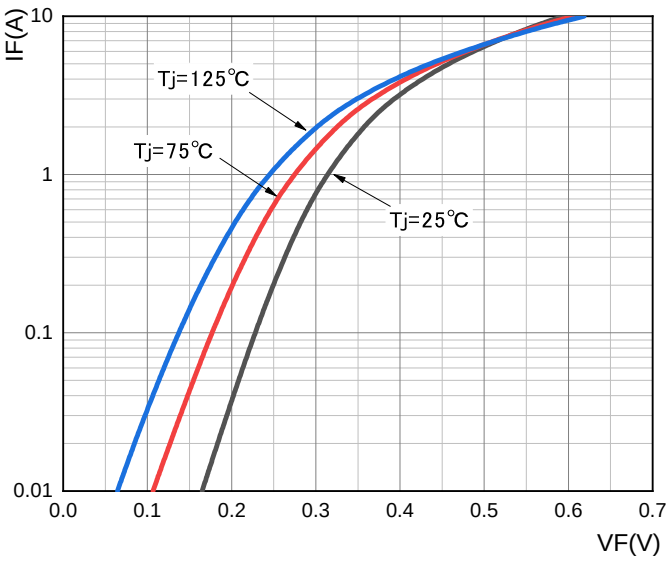
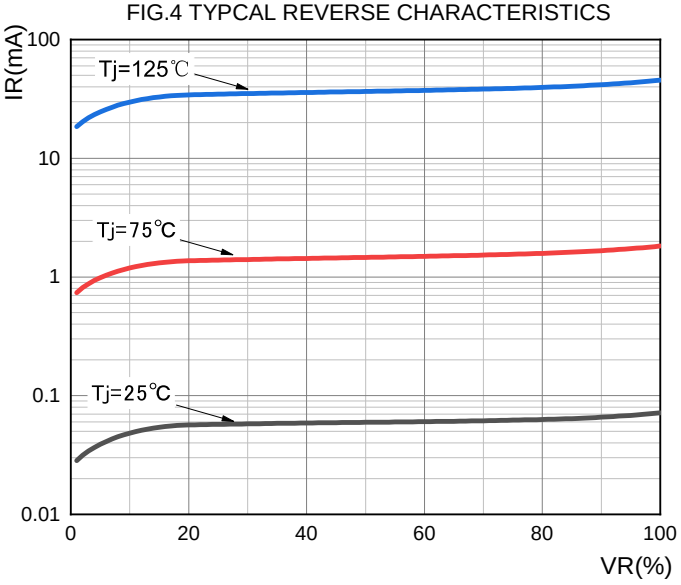
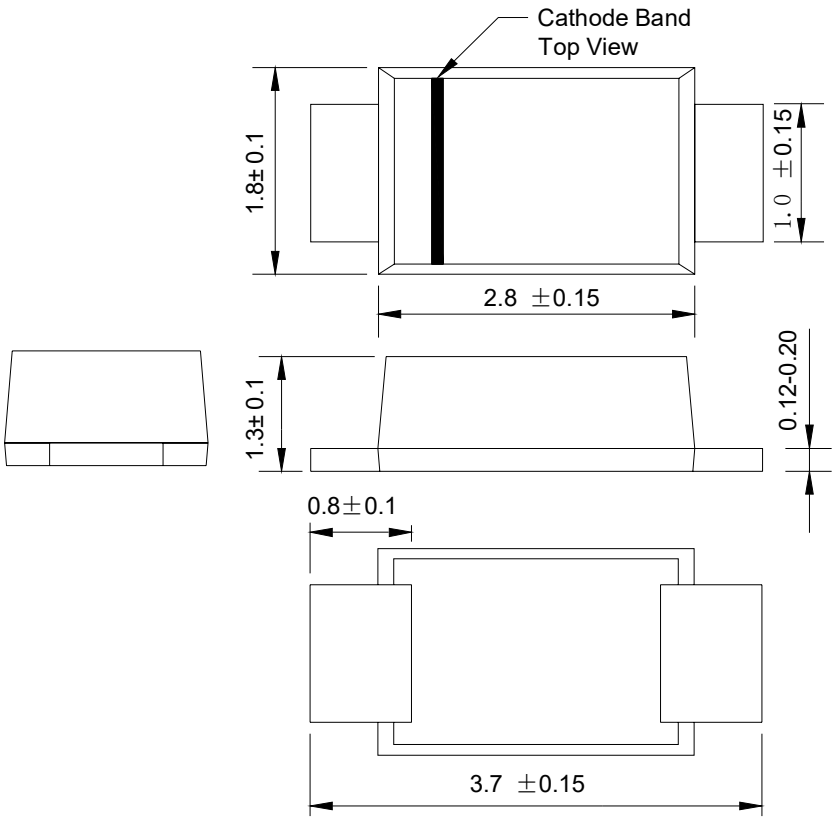


FIG.4 TYPCAL REVERSE CHARACTERISTICS

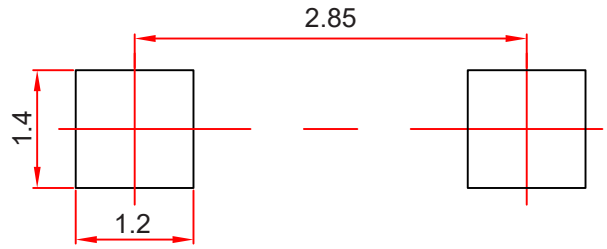


SOD-123FL Package Outline Dimensions



Dimensions in millimeters

SOD-123FL Suggested Pad Layout



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

NOTICE

SZCJ reserves the right to make modifications,enha nts,improvements,corrections or other es without further notice to any product herein.SZCJ does not assume any liability arising out of the application or use of any product described .

Reel Taping Specifications For Surface Mount Devices-SOD-123FL

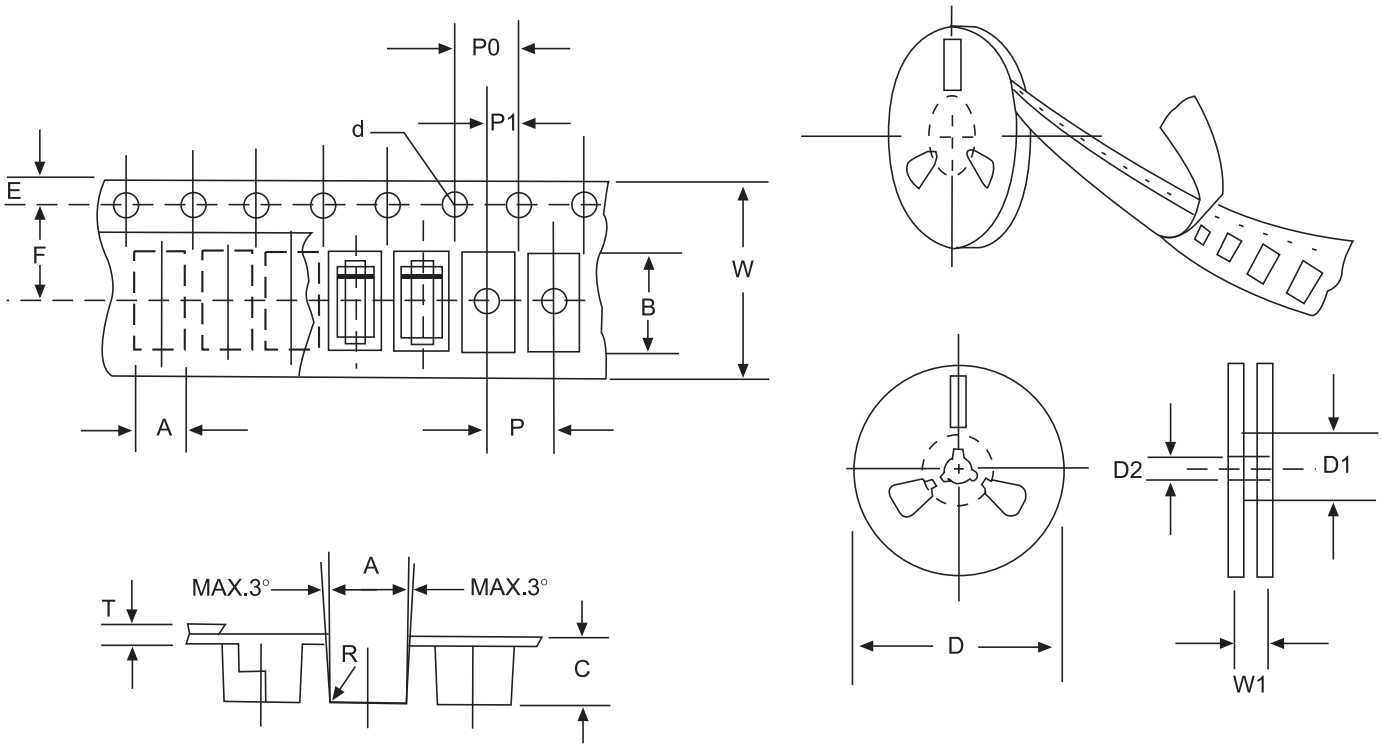


FIG:CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	SOD-123FLmm(inch)
Carrier width	A	2.05±0.1(0.081±0.004)
Carrier length	B	3.95±0.1(0.156±0.004)
Carrier depth	C	1.45±0.1(0.057±0.004)
Sprocket hole	d	1.55±0.05(0.061±0.002)
Reel outside diameter	D	178±2.0(7.0±0.079)
Reel inner diameter	D1	54±1.0(2.13±0.039)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Stroket hole position	E	1.75±0.1(0.069±0.004)
Punch hole position	F	3.50±0.1(0.138±0.002)
Punch hole pitch	P	4.0±0.1(0.157±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)
Totall tape thickness	T	0.21±0.25(0.008±0.010)
Tape width	W	8.0±0.2(0.315±0.008)
Reel width	W1	10.0±2.0(0.394±0.079)

NOTE:Devices are packde in accordance with EIA standard RS-481-A and specification given above.