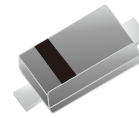


B5819WSL-P2-HF

RoHS Device
Halogen Free



Features

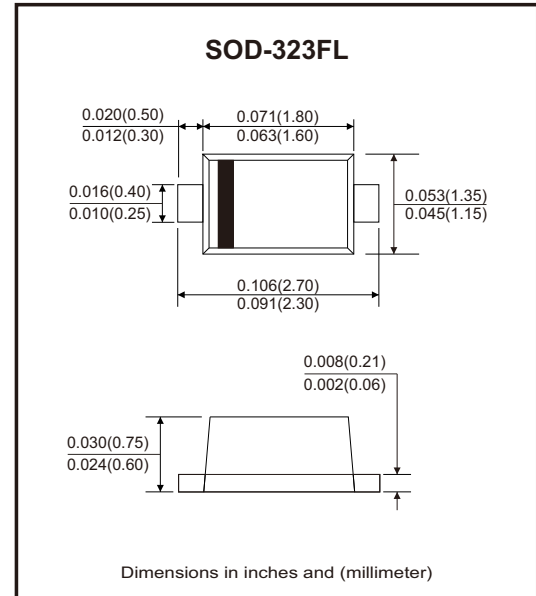
- Low forward voltage schottky rectifier.

Mechanical data

- Case: SOD-323FL, molded plastic.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.

Circuit Diagram

Cathode  Anode



Maximum Ratings (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-repetitive peak reverse voltage	V_{RM}	40	V
Repetitive peak reverse voltage	V_{RRM}	40	V
RMS reverse voltage	V_{RMS}	28	V
Average rectified output current	I_o	1	A
Non-repetitive peak forward surge current @8.3ms single half sine-wave	I_{FSM}	9	A
Repetitive peak forward current	I_{FRM}	1.5	A
Power dissipation	P_D	250	mW
Junction temperature	T_J	125	°C
Storage temperature range	T_{STG}	-65 to +150	°C

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 10mA$	V_F			0.31	V
	$I_F = 500mA$	V_F			0.53	
	$I_F = 1A$	V_F			0.6	
Reverse breakdown voltage	$I_R = 1mA$	V_{BR}	40		75	V
Reverse current	$V_R = 40V$	I_R		6	20	μA
Capacitance between terminals	$V_R = 4V, f = 1MHz$	C_J			120	pF

Typical Rating and Characteristic Curves (B5819WSL-P2-HF)

Fig.1 - Typical Instantaneous Forward Characteristics

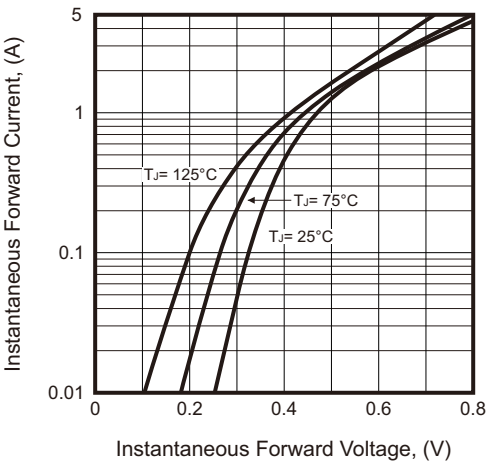


Fig.2 - Typical Reverse Leakage Characteristics

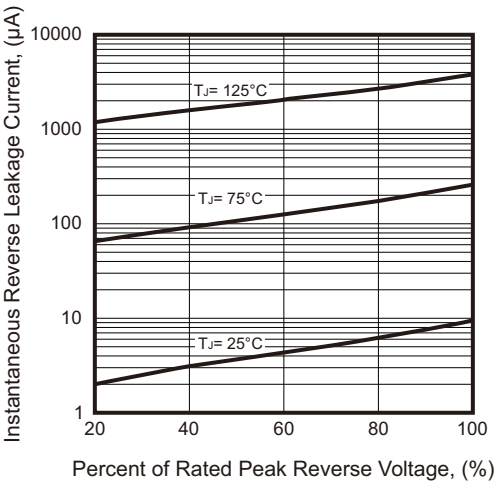
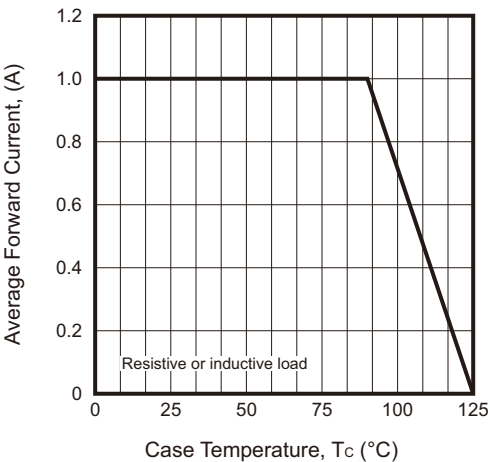
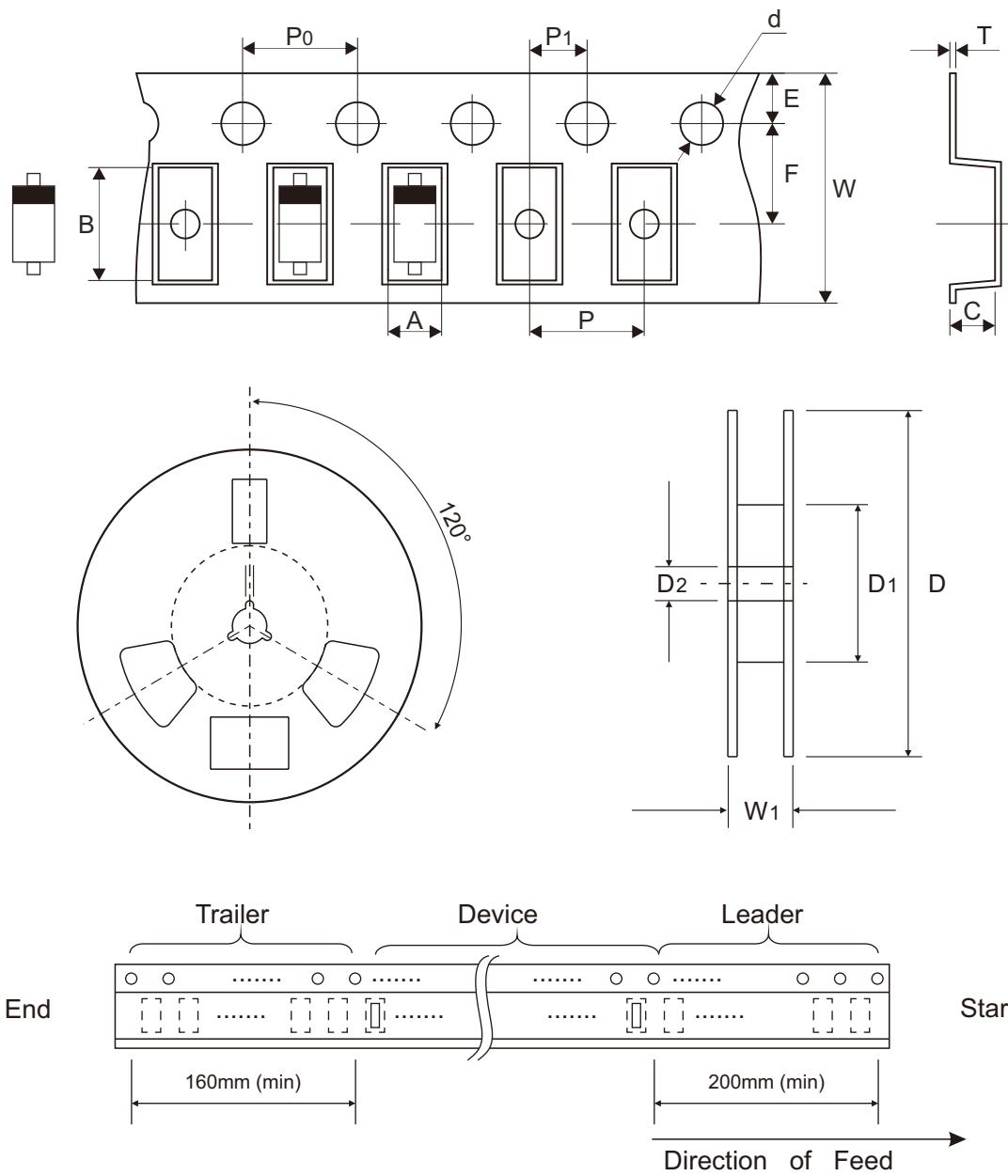


Fig.3 - Forward Current Derating Curve



Reel Taping Specification



SOD-323FL	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.37 ± 0.07	2.75 ± 0.07	0.85 ± 0.10	1.60 ± 0.05	178.00 ± 2.00	50.00 ± 0.50	13.00 ± 0.25
	(inch)	0.054 ± 0.003	0.108 ± 0.003	0.033 ± 0.004	0.063 ± 0.002	7.008 ± 0.079	1.969 ± 0.020	0.512 ± 0.010

SOD-323FL	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.05	3.50 ± 0.05	4.00 ± 0.05	4.00 ± 0.05	2.00 ± 0.05	0.20 ± 0.02	8.00 ± 2.00	9.50 ± 0.50
	(inch)	0.069 ± 0.002	0.138 ± 0.002	0.157 ± 0.002	0.157 ± 0.002	0.079 ± 0.002	0.008 ± 0.001	0.315 ± 0.079	0.374 ± 0.020

Marking Code

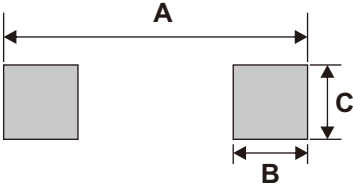
Part Number	Marking Code
B5819WSL-P2-HF	SL



= Cathode band

Suggested P.C.B. PAD Layout

SIZE	SOD-323FL	
	(mm)	(inch)
A	3.20 Max	0.126 Max
B	0.80	0.031
C	0.80	0.031



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-323FL	3,000	7