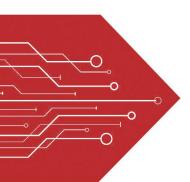
MSKSEMI















ESD

TVS

TSS

MOV

GDT

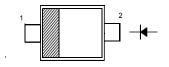
PLED

Broduct data sheet

Surface Mount Schottky Barrier Diodes

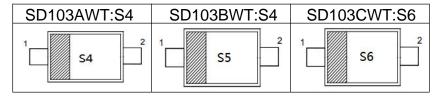
Features

Low Forward Voltage



MARK:

PINNING		
PIN	DESCRIPTION	
1	Cathode	
2	Anode	



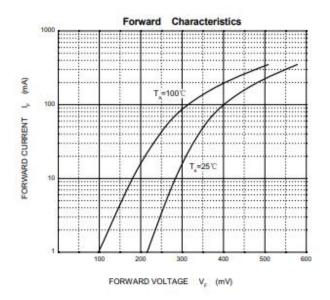
Absolute Maximum Ratings (T_a = 25 °C)

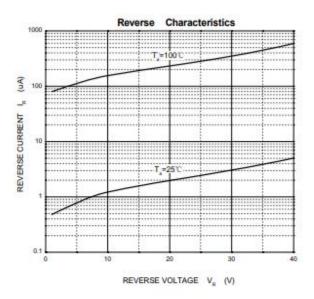
Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage	SD103AWT SD103BWT	V_{RRM}	40 30	V
	SD103CWT		20	
Reverse Voltage	SD103AWT SD103BWT	V_{R}	40 30	V
	SD103CWT		20	
Average Forward Rectified Current		$I_{F(AV)}$	350	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s		I _{FSM}	2	Α
Power Dissipation		P _{tot}	200	mW
Operating and Storage Temperature Range	е	T_j , T_{stg}	- 65 to + 125	°C

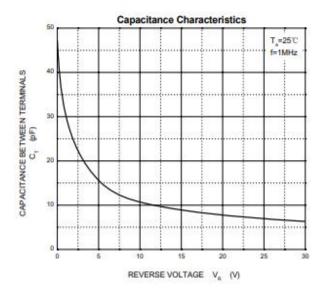
Characteristics at Ta = 25 °C

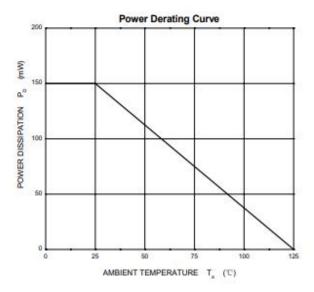
Parameter		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage						
at I _{R=10u} A	SD103AWT	$V_{(BR)R}$	40	-	-	_V
	SD103BWT		30	-	-	v
	SD103CWT		20	-	-	
Reverse Leakage Current						
at V _R =30V	SD103AWT	l _R	-	-	5	
at $V_R = 20 \text{ V}$	SD103BWT		-	-	5	μA
at V _R = 10 V	SD103CWT		-	-	5	
Forward Voltage						
at I _F = 20 mA		V _F	-	-	0.37	V
at I _F = 200 mA			-	-	0.6	
Total Capacitance				F0		
at $V_R = 0$ V, $f = 1$ MHz		C⊤	1	50	_	pF
Reverse Recovery Time		4		10		ne
at I_F = I_R = 200 mA, I_{rr} = 0.1 I_R , R_L = 100 Ω		t _{rr}	_	10	_	ns

Typical Characteristics







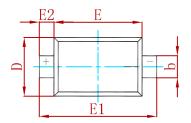


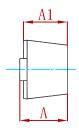


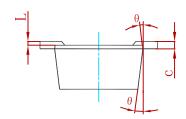




PACKAGE MECHANICAL DATA

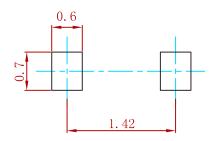






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Syllibol	Min	Max	Min	Max	
А	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
θ	7° REF		7° REF		

Suggested Pad Layout



Note:

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

REEL SPECIFICATION

P/N	PKG	QTY
SD103AWT/SD103BWT/SD103CWT	SOD-523	3000



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