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SOD-523





SD103AX

SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance

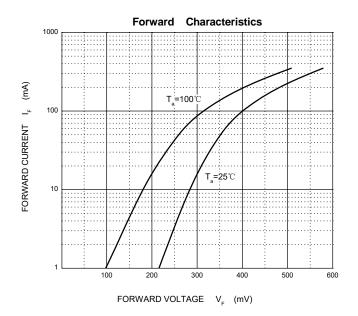
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

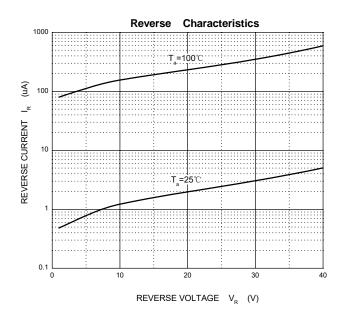
Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage		
V _{RWM}	Working Peak Reverse Voltage		V
V _R	DC Blocking Voltage		
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _{FM}	Forward Continuous Current	350	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current@t=8.3ms	2	Α
P _D	Power Dissipation	150	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	667	°C/W
Tj	Junction Temperature	125	°C
T _{stg}	Storage Temperature	-55~+150	°C

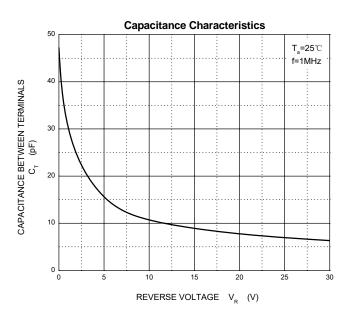
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

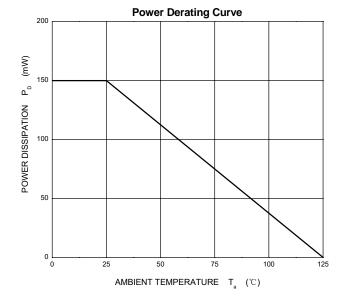
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	$V_{(BR)}$	I _R =100μA	40			V	
		V _R =30V			5	1	
Reverse current	I _R	V _R =20V			2	μA	
		V _R =10V			1		
		I _F =1mA		0.27			
Forward voltage	V_{F}	I _F =5mA		0.32		v	
Forward voltage	VF	I _F =20mA			0.37	V	
		I _F =200mA			0.6	ı	
Total capacitance	C_{tot}	V _R =0V,f=1MHz		50		pF	
Reverse recovery time	t _{rr}	I _F = I _R =200mA, I _{rr} =0.1×I _R , R _L =100Ω		10		ns	





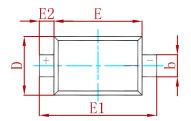


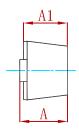


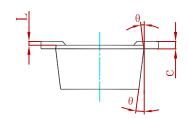




PACKAGE MECHANICAL DATA

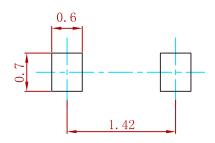






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Syllibol	Min	Max	Min	Max
А	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° F	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
SD103AX	SOD-523	3000



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