

1SS344 SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage
- Fast Reverse Recovery Time
- High Forward Current

APPLICATIONS

High Speed Switching



device, if none,

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _R	DC Blocking Voltage	20	V	
lo	Forward Continuous Current	500	mA	
I _{FM}	Peak Forward Current	1.5	А	
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	5	Α	
P _D	Power Dissipation	200	mW	
R _{θJA}	Thermal Resistance From Junction To Ambient	500	°C/W	
Tj	Operating Junction Temperature Range	-40 ~ +125	℃	
T _{stg}	Storage Temperature Range	-55 ~ +150	℃	

ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	V _(BR)	I _R =100μA	20			V
Reverse current	I _R	V _R =10V			20	μА
Reverse current		V _R =20V			100	
		I _F =10mA			0.35	V
Forward voltage	V _F	I _F =100mA			0.43	
		I _F =500mA			0.55	
Total capacitance	C _{tot}	V _R =0V, f=1MHz		120		pF
Reverse recovery time	t _{rr}	I _F = I _R =50mA, V _R =6V		20		ns









