

Features

- For high-speed switching applications
- Connected in series

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

SOT323



Circuit Diagram



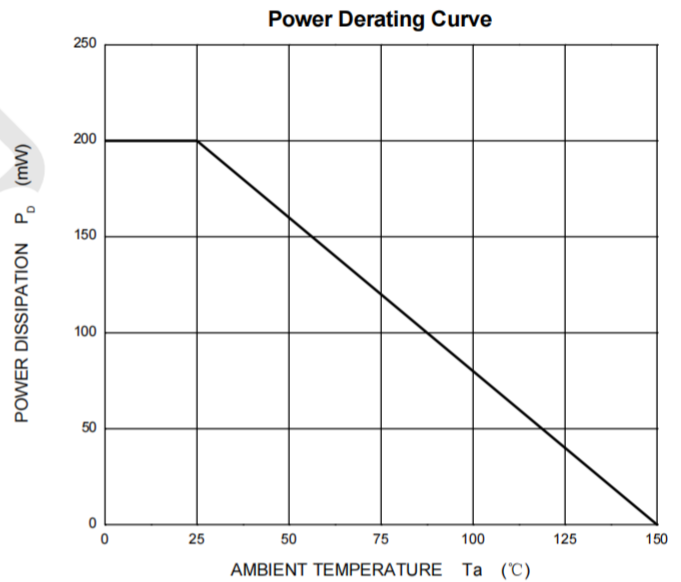
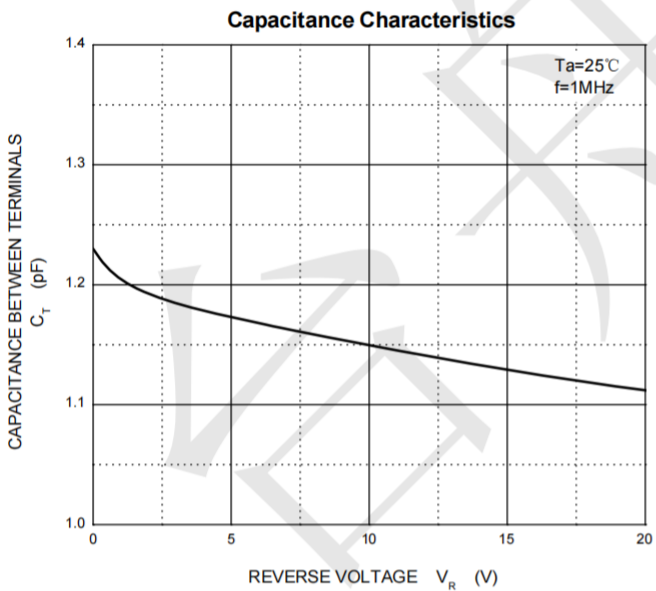
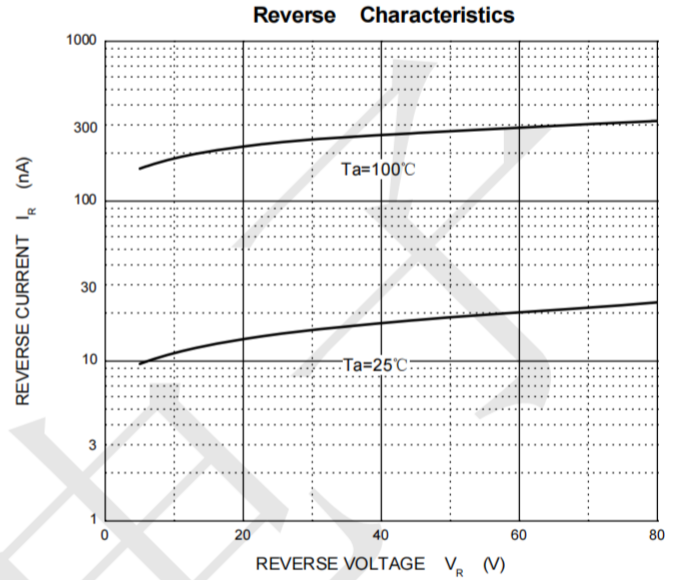
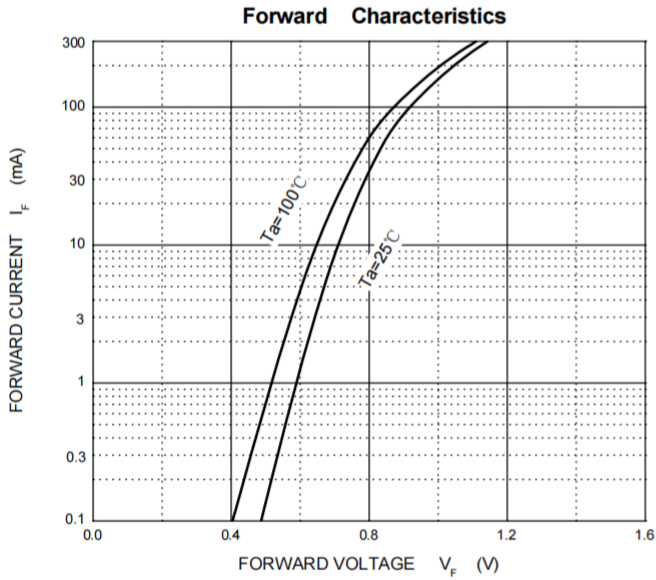
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Reverse Voltage	V _R	75	V
Forward Current	I _F	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	°C/W
Operation Junction and Storage Temperature Range	T _J , T _{STG}	-55~+150	°C

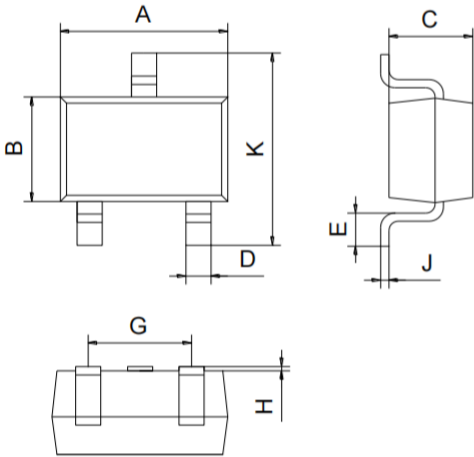
Electrical Characteristics (T =25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 100μA	75		V
Reverse voltage leakage current	I _{R1}	V _R =75V		2.5	μA
	I _{R2}	V _R =25V		25	nA
Forward voltage	V _F	I _F =1mA I _F =10mA I _F =50mA I _F =150mA		715 855 1000 1250	mV
Diode capacitance	C _D	V _R =0 f=1MHz		2	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA I _{tr} =0.1×I _R , R _L =100Ω		4	ns

Typical Electrical Characteristic Curves



Outline Drawing - SOT323(unit: mm)



SOT-323		
Dimension	Min.	Max.
A	2.00	2.20
B	1.15	1.35
C	0.90	1.10
D	0.15	0.35
E	0.25	0.40
G	1.20	1.40
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

Mounting Pad Layout-SOT323(unit: mm)

