

Features

- Low Forward voltage drop.
- High breakdown voltage.
- Guard ring protected.
- Low capacitance.

Mechanical Data

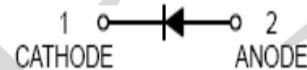
- Case:SOD-323

Typical Applications

- For high speed switching applications.



SOD-323



Maximum Ratings (@T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	70	V
Working Peak Reverse Voltage	V _{RWM}		
DC Reverse Voltage	V _R		
Forward Continuous Current *	I _F	70	mA
Non-Repetitive Peak Forward Surge Current@t _p =8.3ms	I _{FSM}	100	mA

Thermal Characteristics

Parameter	Symbol	Value	Units
Power dissipation	P _D	200	mW
Typical thermal resistance per leg	R _{θJA} *	500	°C /W
Operating junction temperature range	T _J	125	°C
Storage temperature range	T _{STG}	-55 to +150	°C

* Part mounted on FR-4 board with recommended pad layout

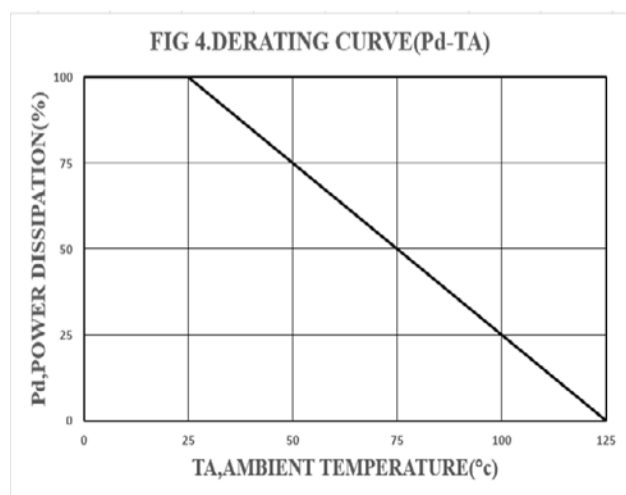
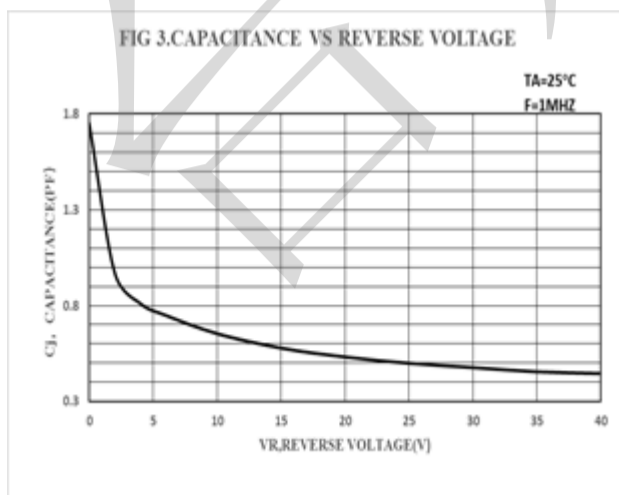
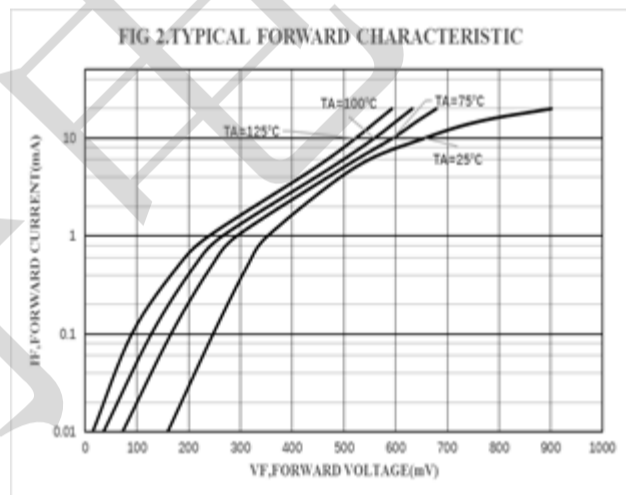
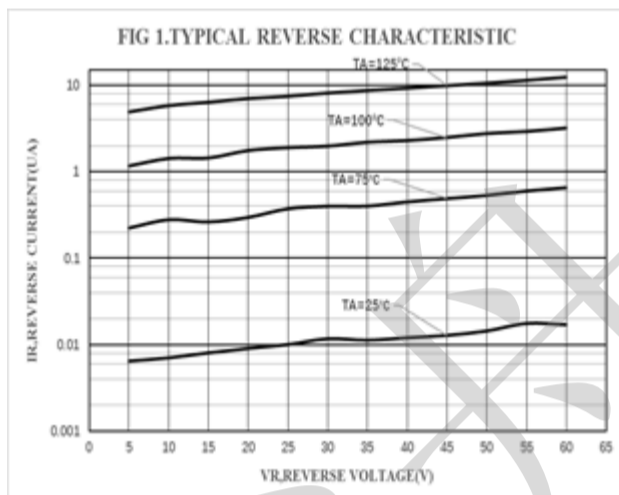
Electrical Characteristics (@T_A=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage *1	V _F	I _F =1mA			0.41	V
		I _F =15mA			1	V
Reverse Leakage Current *2	I _R	V _R =50V			100	nA
Capacitance Between Terminals	C _T	V _R =0V, f=1MHz			2	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, R _L =100Ω			5	ns

*1: pulse test, t_p≤300μs

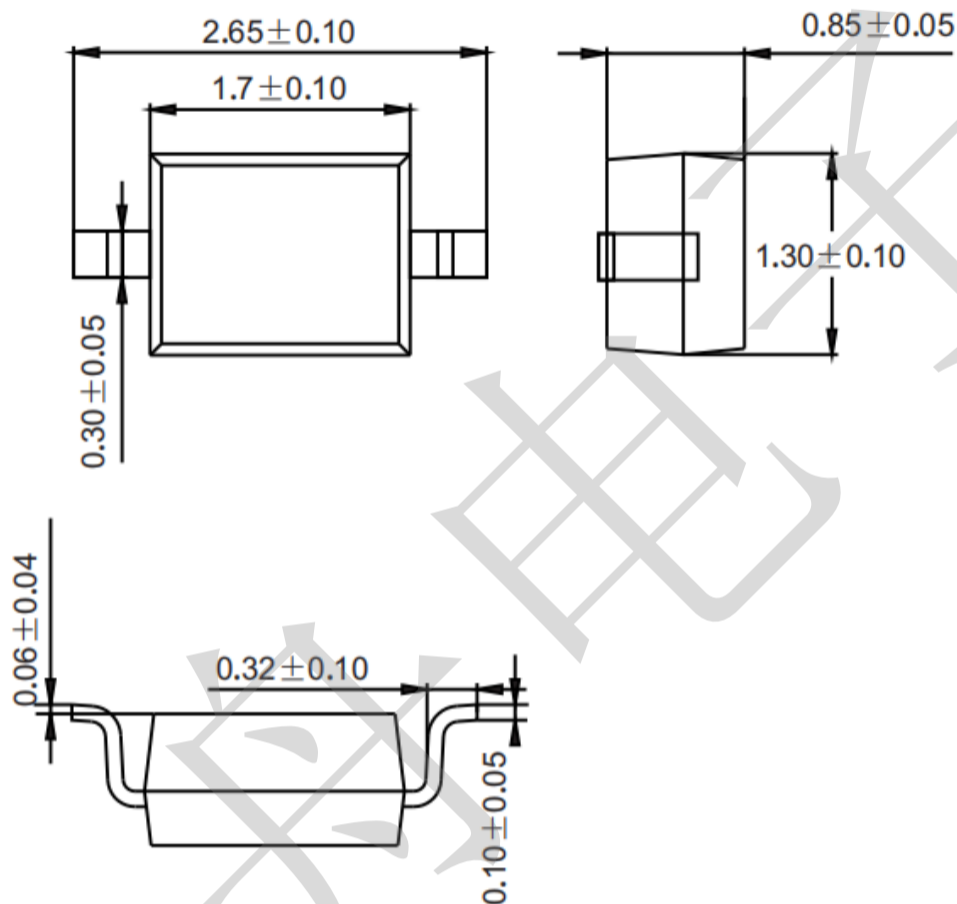
*2: pulse test, t_p≤5ms

Ratings and Characteristic Curve (T_A=25°C unless otherwise noted)



Package Outline Dimensions (unit:mm)

SOD-323



Mounting Pad Layout (unit: mm)

