

Features

- Very small conduction losses
- Negligible switching losses
- Low forward voltage drop
- Surface mount device

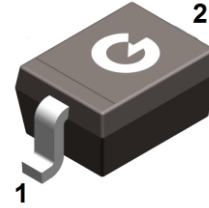
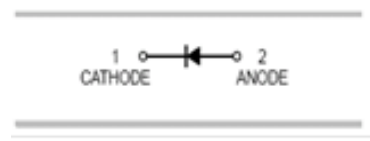
HF

Typical Applications

- Schottky barrier diodes

Mechanical Data

- Case: SOD-323
- Terminals: solderable per MIL-STD-202, Method 208



SOD-323

Ordering Information

Part Number	Package	Shipping	Marking Code
BAT54J	SOD-323	3000 pcs / Tape & Reel	86

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

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	V _R	30	V
Continuous forward current	I _F	200	mA
Peak forward surge current @t<1s	I _{FSM}	600	mA
Total power dissipation *	P _D	200	mW

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

Thermal Characteristics

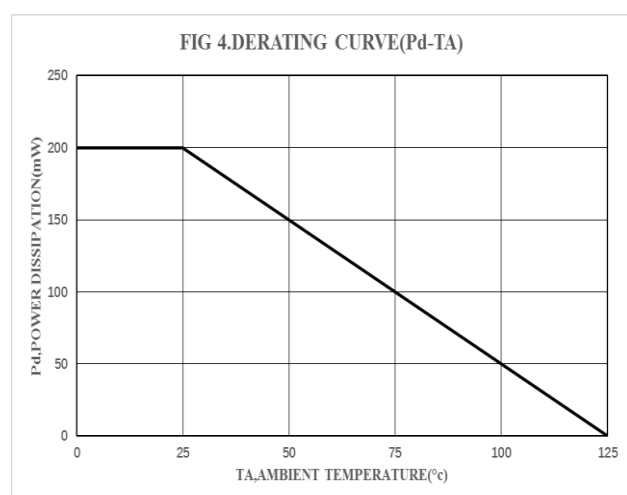
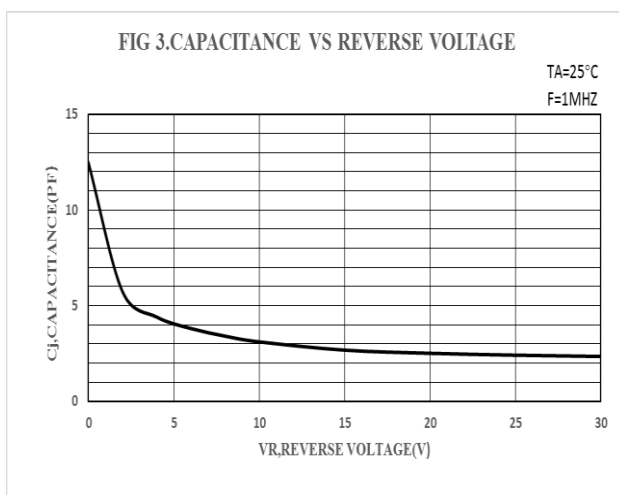
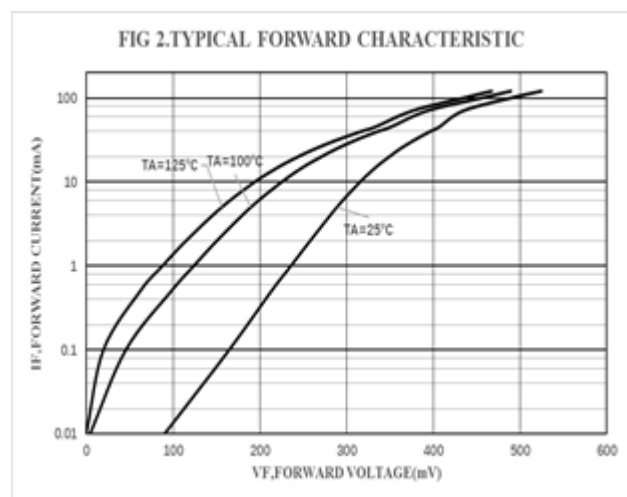
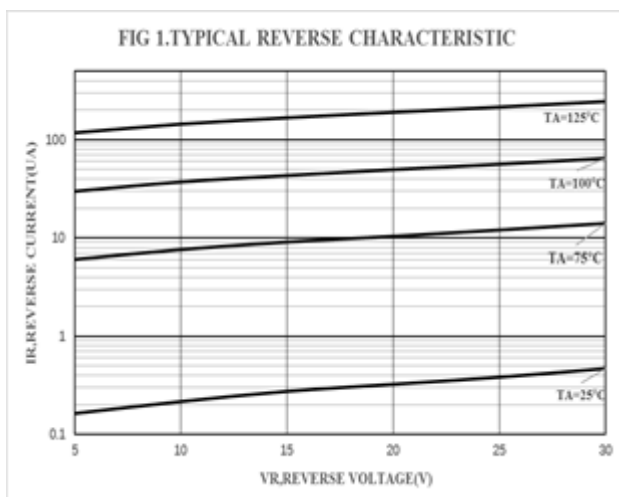
Parameter	Symbol	Limits	Unit
Thermal resistance junction to ambient air	R _{θJA}	500	°C/W
Junction temperature	T _j	125	°C
Storage Temperature Range	T _{STG}	-65 to +125	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =100μA	30			V
Forward voltage *1	V _{F1}	I _F =0.1mA			240	mV
	V _{F2}	I _F =1.0mA			320	mV
	V _{F3}	I _F =10mA			400	mV
	V _{F4}	I _F =30mA			500	mV
	V _{F5}	I _F =100mA			900	mV
Reverse leakage current *2	I _R	V _R =25V			2	μA
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω			5	ns
Capacitance Between Terminals	C _T	V _R =1V, f=1MHz			10	pF

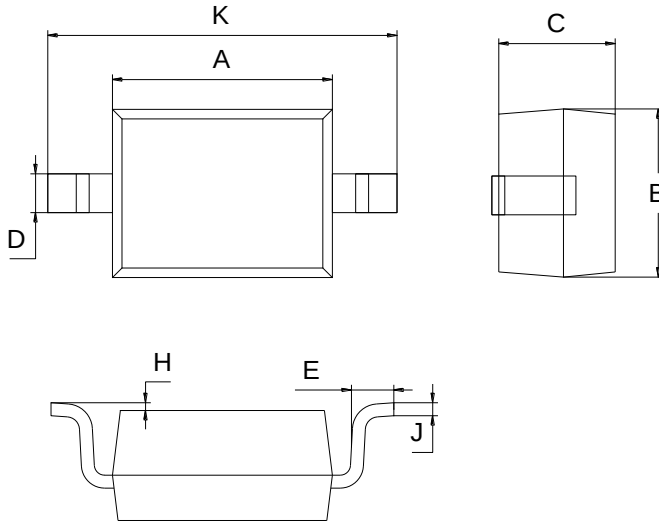
*1: pulse test, tp≤300μs
*2: pulse test, tp≤5ms

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



Package Outline Dimensions(unit:mm)

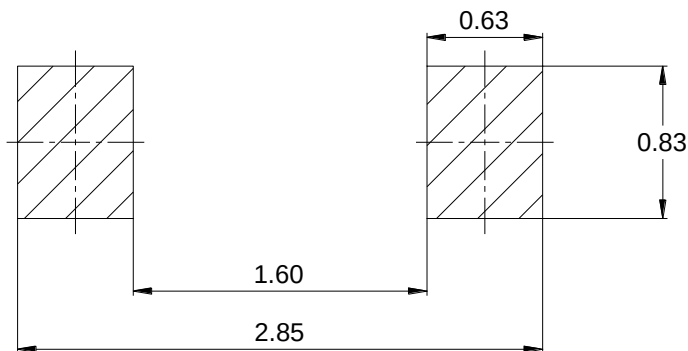
SOD-323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

Mounting Pad Layout(unit:mm)

SOD-323



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