

Features

- High reliability with high surge current handing capability
- Small surface mounting type

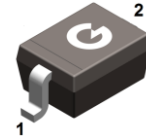
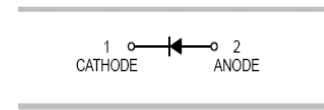
HF

Typical Applications

- High speed switching

Mechanical Data

- Case: SOD-323
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208



SOD-323

Ordering Information

Part Number	Package	Shipping	Marking Code
1SS404	SOD-323	3000 pcs / Tape & Reel	S51

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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	25	V
RMS Reverse Voltage	V _{RMS}	20	V
Maximum Average Forward Output Current	I _{F(AV)}	0.3	A
Peak Forward Surge Current, 8.3ms Single Half-sine-wave	I _{FSM}	1	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	250	mW
Typical Thermal Resistance per leg	R _{θJA} *	500	°C/W
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

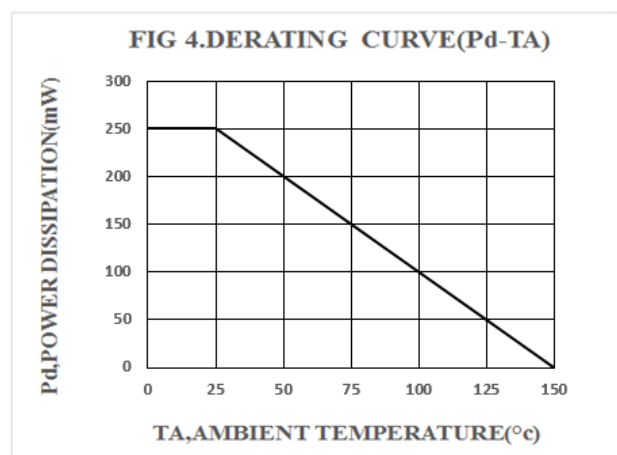
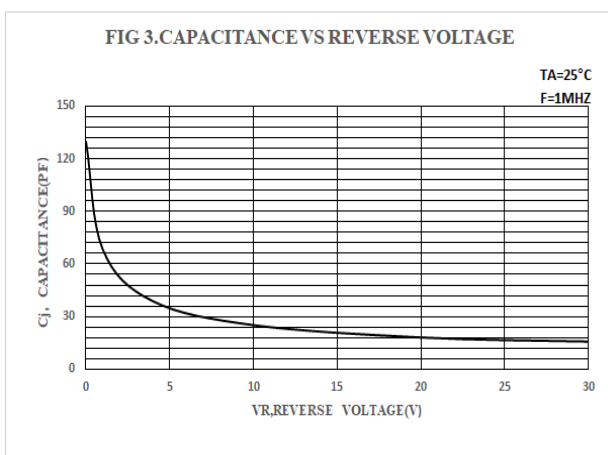
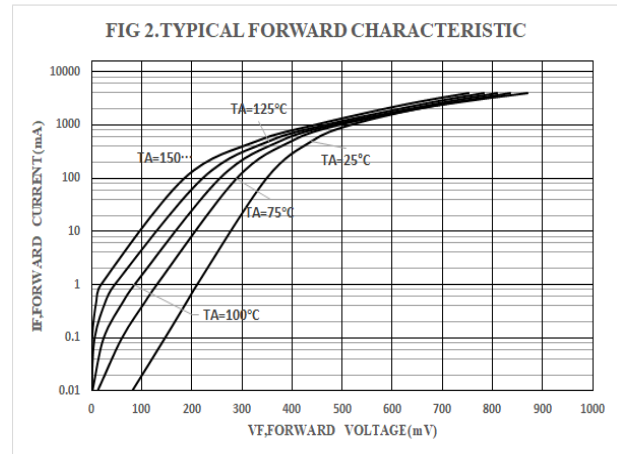
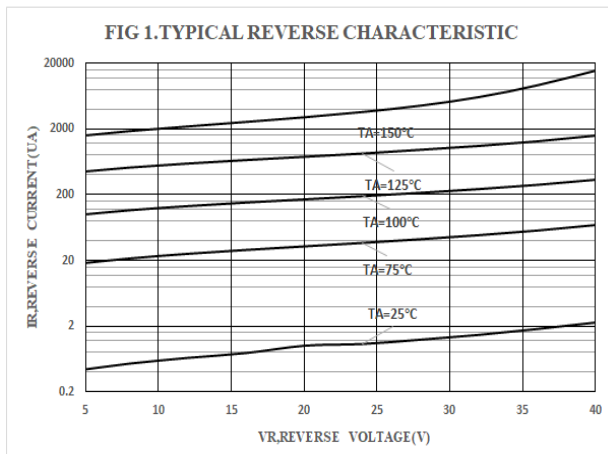
Electrical Characteristics (@ $T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F^*	$I_F=1\text{mA}$	-	0.22	-	V
		$I_F=10\text{mA}$	-	0.28	-	
		$I_F=300\text{mA}$	-	0.41	0.45	
Maximum Peak Reverse Current	I_R^{**}	$V_R=20\text{V}$	-	-	50	μA
Capacitance Between Terminals	C_T	$V_R=4\text{V}, f=1\text{MHz}$	-	38	-	pF

*Pulse width $\leq 380\text{ }\mu\text{s}$, Duty cycle $< 2\%$

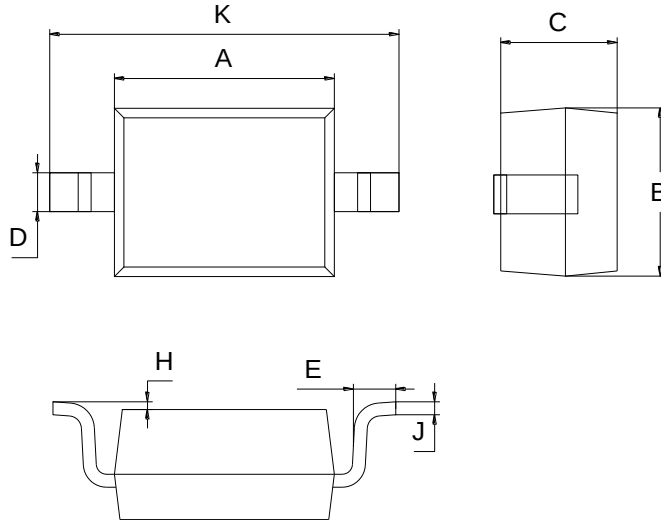
**pulse test , $t_p \leq 5\text{ms}$

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)



Package Outline Dimensions (unit: mm)

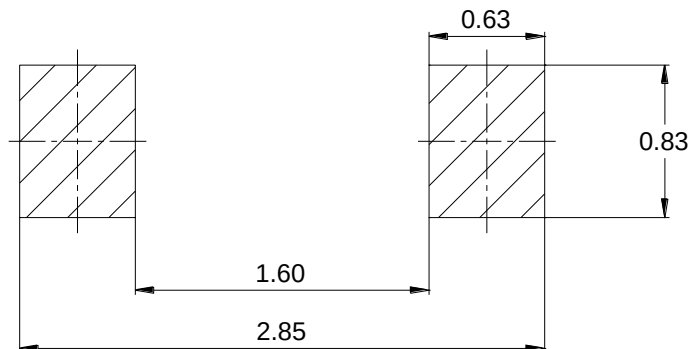
SOD-323



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



IMPORTANT NOTICE

Galaxy Microelectronics (GME) reserves the right to make changes without further notice to any product herein to make corrections, modifications, improvements, or other changes. GME does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others.