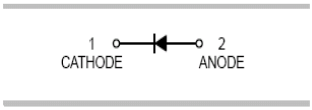
Small Signal Schottky Barrier Diode

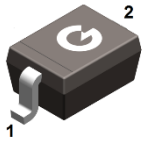
T1SS404

Features

HF

- High reliability with high surge current handing capability
- Small surface mounting type
- Halogen free
- Qualified to AEC-Q101 standards for high reliability





SOD-323

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

Ordering Information

Part Number	Package	Shipping	Marking Code
T1SS404	SOD-323	3000 pcs / Tape & Reel	S51

Maximum Ratings (@T_A=25℃ 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	$R_{\Theta JA}$*	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℃ unless otherwise specified)

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

*Pulse width ≤380 uS, Duty cycle < 2%
**pulse test ， tp≤5ms

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

FIG 1.TYPICAL REVERSE CHARACTERISTIC

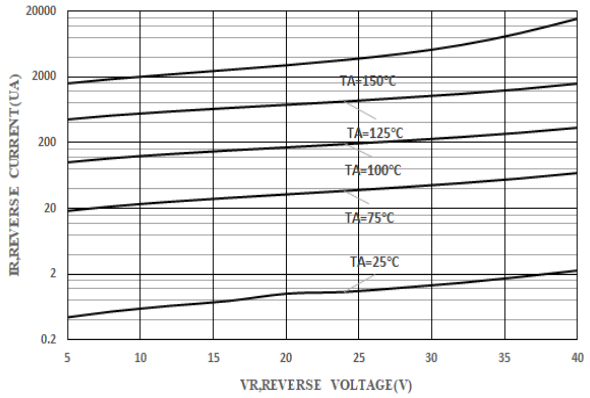


FIG 2.TYPICAL FORWARD CHARACTERISTIC

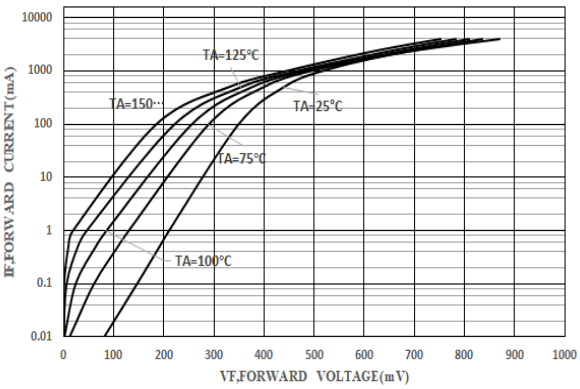


FIG 3.CAPACITANCE VS REVERSE VOLTAGE

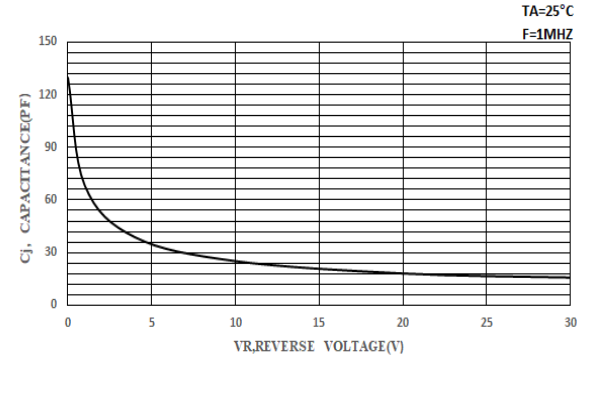
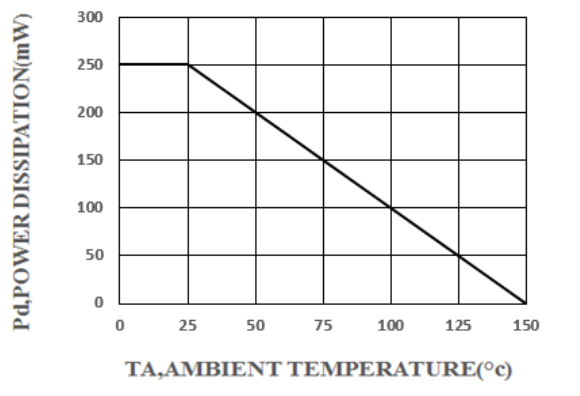
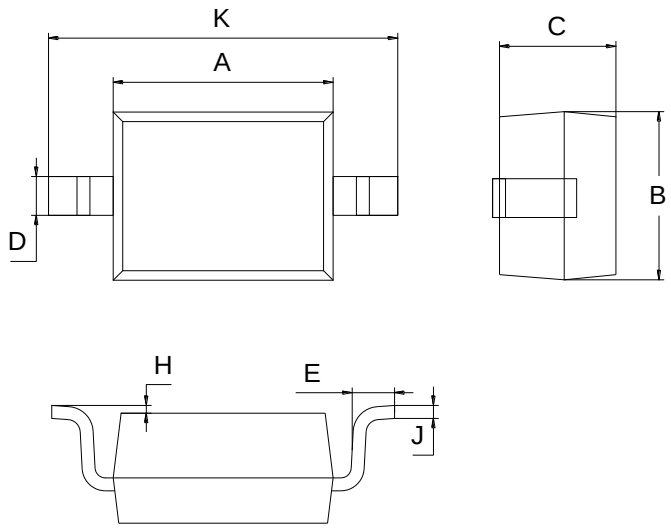


FIG 4.DERATING CURVE(Pd-TA)



Package Outline Dimensions (unit: mm)

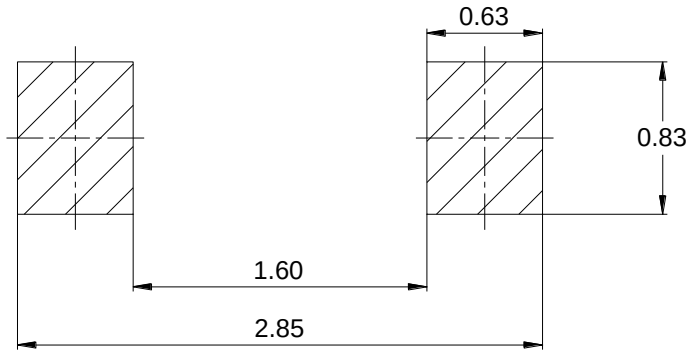
SOD-323



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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