

1SS357

SWITCHING DIODE

VOLTAGE	45 Volt	POWER	200 mW
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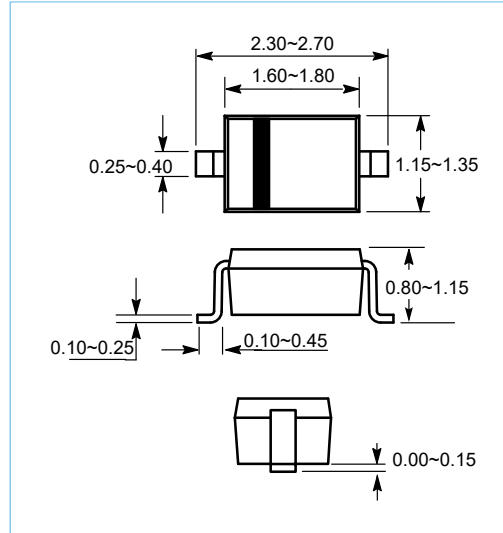
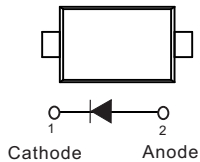
SOD-323 Unit:mm

FEATURES

- Low voltage, low inductance
- Low current rectifier schottky diode
- Lead free in compliance with EU RoHS
- Marking code: S31

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

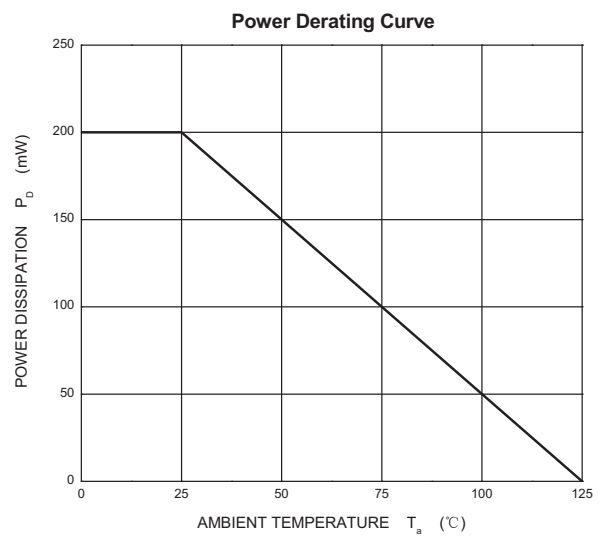
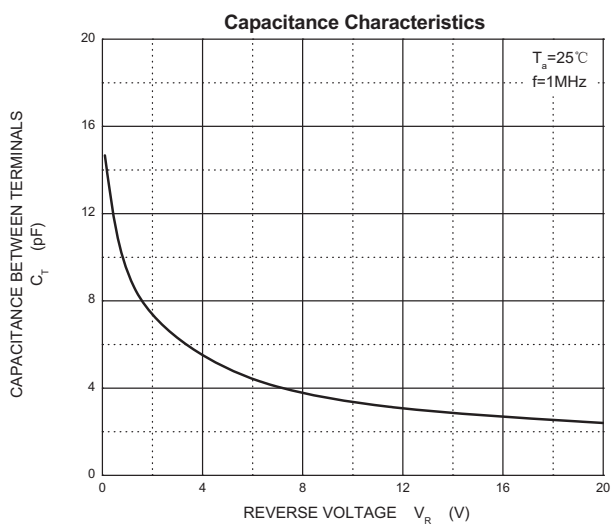
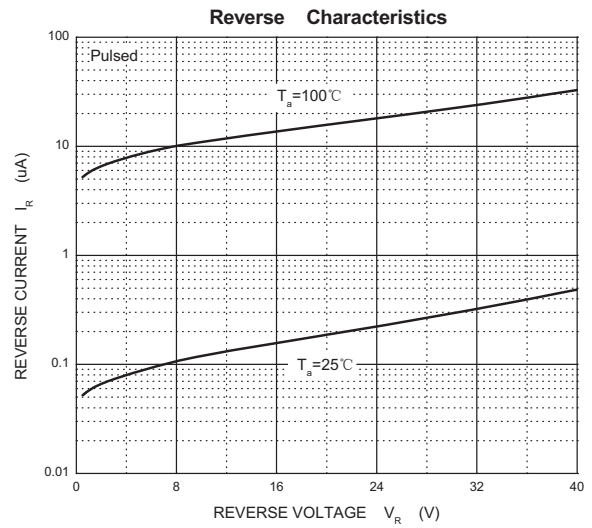
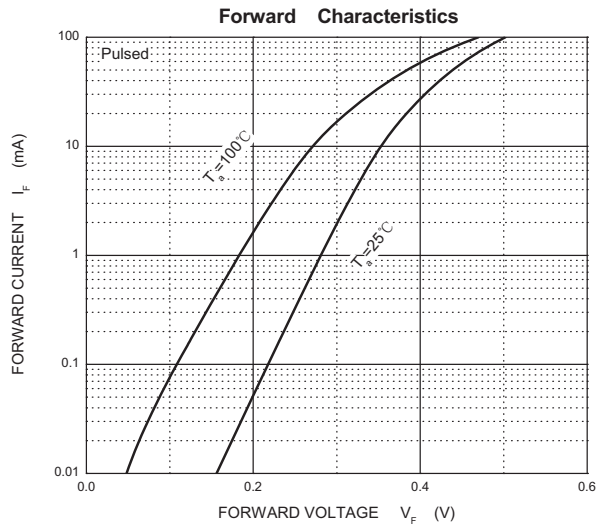
Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	45	V
Reverse voltage	V_R	40	V
Average Rectified Output Current	I_O	100	mA
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	1.0	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Leakage	I_R	($V_R = 40\text{ V}$)			5.0	μA
Forward Voltage	V_F	($I_F = 1\text{ mA}$) ($I_F = 10\text{ mA}$) ($I_F = 100\text{ mA}$)			0.35 0.45 0.60	V
Total Capacitance	C_T	($V_R = 0\text{ V}$, $f = 1.0\text{ MHz}$)			25	pF

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Typical Characteristics

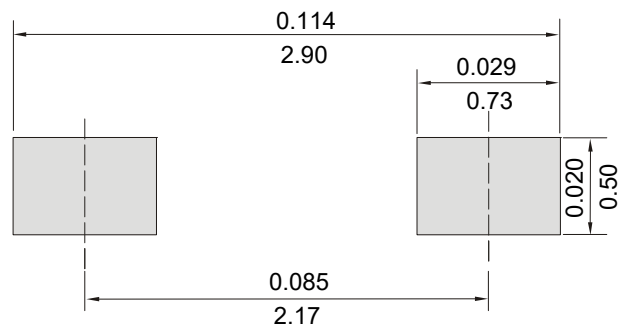


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MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1SS357	SOD-323	7 Inch	3000